REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8201180457 DOC.DATE: 81/12/30 NOTARIZED: NO DOCKET #
FACIL:50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
AUTH.NAME AUTHOR AFFILIATION
BOUCHEY,G.D. Washington Public Power Supply System
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Forwards Amend 3 to preservice insp program plan - procedures. With Volume 3 SEE BELOW
Revised 1/26/82 GD
DISTRIBUTION CODE: B001S COPIES RECEIVED:LTR 1 ENCL 5 SIZE: 4+80.0
TITLE: PSAR/FSAR AMDTS and Related Correspondence

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	IE/DEP/EPDB	35	1	1	IE/DEP/EPLB	36	3	3
	MPA		1	0	NRR/DE/CEB	11	1	1
	NRR/DE/EQB	13	3	3	NRR/DE/GB	28	2	2
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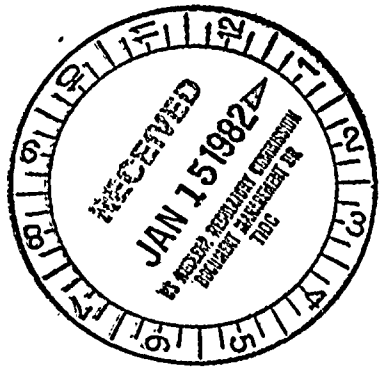
	NRR/DE/SAB	24	1	1	NRR/DE/SEB	25	1	1
	NRR/DHFS/HFEB	40	1	1	NRR/DHFS/LQB	32	1	1
	NRR/DHFS/OLB	34	1	1	NRR/DHFS/PTRB	20	1	1
	NRR/DSI/AEB	26	1	1	NRR/DSI/ASB	27	1	1
	NRR/DSI/CPB	10	1	1	NRR/DSI/CSB	09	1	1
	NRR/DSI/ETSB	12	1	1	NRR/DSI/ICSB	16	1	1
	NRR/DSI/PSB	19	1	1	NRR/DSI/RAB	22	1	1
	NRR/DSI/RSB	23	1	1	NRR/DST/LGB	33	1	1
	REG FILE	04	1	1				
EXTERNAL:	ACRS	41	16	16	BNL(AMDTS ONLY)		1	1
	FEMA-REP DIV	39	1	1	LPDR	03	1	1
	NRC PDR	02	1	1	NSIC	05	1	1
	NTIS		1	1				

TOTAL NUMBER OF COPIES REQUIRED: LTTR 63 (65) ENCL 56 (60)

Washington Public Power Supply System
P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

Docket No. 50-397

December 30, 1981
G02-81-565



Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
CPPR-93, PRESERVICE INSPECTION PROGRAM PLAN AMENDMENT

References: a) G02-79-54, dated March 28, 1979
b) G02-79-89, dated May 9, 1979
c) G02-80-311, dated December 31, 1980

The Washington Public Power Supply System herewith submits five (5) copies of Amendment 3 to the WNP-2 Preservice Inspection Program Plan. Five (5) copies of the Program Plan and Amendments 1 and 2 were originally submitted to you via the referenced letters. The Program Plan governs the preservice non-destructive examinations of the Nuclear Steam Supply System and supporting piping systems which are within the scope of Section XI of the ASME Boiler and Pressure Vessel Code and pertinent augmented examination requirements of applicable NRC Regulatory Guides.

The main changes to the Program Plan by this amendment are:

- Drawing and table changes to reflect as-built conditions as identified during the ongoing preservice examinations.
- Approved procedures.
- Addition and identification of augmented ISI for all ASME Class 1 piping in the break exclusion area to the drawings and summary tables.

B001
s
1/5
on shelf

- Parts of Chapter 7.0, which includes exceptions and exemptions to the Code, have been revised.

- Updated Chapter 5.0 to current text of FSAR related to PSI.

Very truly yours,

GD Bouchey

G. D. Bouchey - 370
Deputy Director, Safety and Security

DPR:kjf

Enclosures:

cc: R. Auluck, NRC, w/o
EF Beckett, NPI, w/o
HR Canter, B&R RO, w/o
WS Chin, BPA, w/o
AI Cygelman, B&R 954W, w/o
OK Earle, B&R RO, w/o
RH Engelken, NRC ROV, w/a
R. Feil, NRC Site, w/o
JA Forrest, B&R RO, w/o
MR Humm, NRC, w/o
O. Lageraaen, B&R NY, w/o
ND Lewis, EFSEC, w/o
FA MacLean, GE, w/o
JC Plunkett, NUS, w/o
S. Smith, GE, w/o
RE Snaith, B&R NY, w/o
JJ Verderber, B&R NY, w/o

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. BOX 968

3000 GEORGE WASHINGTON WAY

RICHLAND, WASHINGTON 99352

ACKNOWLEDGMENT RECEIPT

From: Manager Corporate Policy & Records, _____
Title

165 12/23/81
Mail Drop Date

To: NRC (Bethesda)/TF Hoyle

WNP-2 Preservice Inspection Plan Amendment No. 3 Copy No 12

Instructions: (List here or attach Form WP-695, Manual Revision Instructions)

See Form WP-695 attached

Please indicate on this form misspellings, mail drop and address changes, and return to sender within 10 working days.

I have received and entered the material as instructed and any superseded material has been destroyed or marked superseded.

Signature:_____ Date:_____

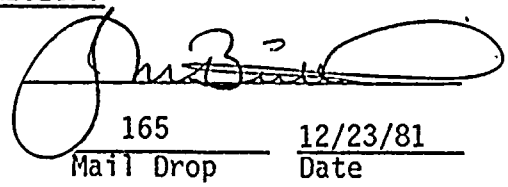
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. BOX 968

3000 GEORGE WASHINGTON WAY

RICHLAND, WASHINGTON 99352

ACKNOWLEDGMENT RECEIPT

From: Manager Corporate Policy & Records, 
Title

165 12/23/81
Mail Drop Date

To: NRC (Bethesda) / T. Hoyle

WNP-2 Preservice Inspection Plan Amendment No. 3 Copy No 16

Instructions: (List here or attach Form WP-695, Manual Revision Instructions)

See Form WP-695 attached

Please indicate on this form misspellings, mail drop and address changes, and return to sender within 10 working days.

I have received and entered the material as instructed and any superseded material has been destroyed or marked superseded.

Signature:_____ Date:_____

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MANUAL REVISION INSTRUCTIONS

TITLE	REV. PACKAGE NO.	DATE
WNP-2 Program PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
7.0 Boundary Diagrams				
o Updated to reflect NRC review of Program Plan.	7-6	1	7-6	2
	7-6a	0	7-6a	1
	New	--	7-6b	0
	7-7	0	7-7	1
	7-8	--	7-8	1
	7-9	1	7-9	2
	7-13	1	7-13	2
	7-13a	0	7-13a	1
	7-21	0	7-21	1
	7-22	1	7-22	2
8.0 Weld ID Diagrams				
o Various changes have been made to the following drawings and tables. The nature of the changes are: typographical errors, as-built changes, changes in calibration standards, procedures, or technique. The revision block on the drawing shows the changes that have been made. The program plan and schedule tables have corresponding changes made to them.				
RPV				
o Drawing RPV-101	1	2	1	3
o Table RPV-101	1 thru 33	11/13/80	1 thru 30	11/24/81
o Drawing RPV-102	1	1	1	2
o Table RPV-102	1 thru 2	11/13/80	1 thru 2	11/24/81
o Drawing RPV-114	1	0	1	1
RCIC				
o Drawing RCIC-101	1	2	1	3
o Drawing RCIC-101	2	1	2	2
o Drawing RCIC-101	3	0	3	1
o Table RCIC-101	1 thru 6	11/13/80	1 thru 6	11/24/81
o Table RCIC-102	1 thru 7	11	1 thru 7	11
o Drawing RCIC-201	1	0	1	1
o Table RCIC-201	New	--	1	11/24/81
o Drawing RCIC-204	4	0	4	1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MANUAL REVISION INSTRUCTIONS

TITLE	REV. PACKAGE NO.	DATE
WNP-2 PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
Signature Page				
o Add new signature page for Amendment 3 behind signature page for Amendment 2	New	--	Dated 12/14/81	3
2.0 Table of Contents				
o Added Volume 3	2-1, 2-2	2	2-1, 2-2	3
3.0 Record of Program Plan Revisions				
o List of effective pages - revised to incorporate changes	3-2 thru 3-15	2	3-2 thru 3-16	3
5.0 FSAR/NRC Commitments				
o Replaced FSAR text to PSI commitments with latest FSAR text.	5-1 thru 5-40	0	5-1 thru 5-40a	1
o Removed "does not include augmented ISI requirements" from a number of Reg. Guides. Added statement on Reg. Guide 1.150.	5-42 thru 5-43	0	5-42 thru 5-43	1
o Added three notes to FW nozzle inspection commitment to reflect use of WNP-2 mockup	5-50 5-55 New	0 0 --	5-50 5-55 5-60	1 1 1
6.0 Program Description				
o Schedule--has changed	6-11	2	6-11	3

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MANUAL REVISION INSTRUCTIONS

TITLE	REV. PACKAGE NO.	DATE
WNP-2 Program PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
HPCS				
o Drawing HPCS-101	1	0	1	2
o Drawing HPCS-101	2	2	2	3
o Table HPCS-101	1 thru 4	11/13/80	1 thru 4	11/24/81
LPCS				
o Table LPCS-101	1 thru 4	11/13/80	1 thru 4	11/24/81
RHR				
o Drawing RHR-101	1	3	1	4
o Table RHR-101	1 thru 4	11/23/80	1 thru 4	11/24/81
o Drawing RHR-102	1	3	1	4
o Table RHR-102	1 thru 4	11/13/81	1 thru 4	11/24/81
o Drawing RHR-103	1	3	1	4
o Table RHR-103	1 thru 5	11/13/81	1 thru 5	11/24/81
o Drawing RHR-104	1	3	1	4
o Table RHR-104	1 thru 4	11/13/81	1 thru 4	11/24/81
o Drawing RHR-105	1	1	1	2
o Table RHR-105	1 thru 4	11/13/81	1 thru 4	11/24/81
o Drawing RHR-106	1		1	2
o Table RHR-106	1 thru 3	11/13/81	1 thru 3	11/24/81
o Drawing RHR-201	1	0	1	1
o Drawing RHR-201	2	0	2	1
o Drawing RHR-201	3	0	3	1
o Drawing RHR-201	5	1	5	2
o Drawing RHR-201	7	0	7	1
o Drawing RHR-201	8	0	8	1
o Drawing RHR-201	10	0	10	1
o Drawing RHR-201	11	1	11	2
o Table RHR-201	1 thru 14	11/20/80	1 thru 15	11/24/81
o Drawing RHR-202	2	0	2	1
o Table RHR-202	1 thru 2	11/13/80	1 thru 2	11/24/81
o Drawing RHR-203	2	0	2	-1
o Table RHR-203	1 thru 5	11/13/80	1 thru 5	11/24/81
o Drawing RHR-204	2	0	2	1
o Table RHR-204	1 of 1	11/13/80	1 of 1	11/24/81
o. Drawing RHR-205	2	0	2	
o Drawing RHR-205	3	0	3	
o Table RHR-205	1 thru 7	11/13/80	1 thru 7	11/24/81

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MANUAL REVISION INSTRUCTIONS

TITLE	REV. PACKAGE NO.	DATE
WNP-2 PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
RHR (Continued)				
o Drawing RHR-206	2	0	2	1
o Drawing RHR-206	3	1	3	2
o Table RHR-206	1 thru 3	11/13/80	1 thru 3	11/24/81
o Drawing RHR-207	1	0	1	1
o Drawing RHR-207	2	0	2	1
o Drawing RHR-207	3	0	3	1
o Drawing RHR-207	4	0	4	1
o Drawing RHR-207	5	0	5	1
o Drawing RHR-207	6	0	6	1
o Drawing RHR-207	7	0	7	1
o Drawing RHR-207	9	0	9	1
o Drawing RHR-207	10	0	10	1
o Drawing RHR-207	11	0	11	1
o Drawing RHR-207	12	0	12	1
o Drawing RHR-207	13	1	13	2
o Drawing RHR-207	14	0	14	1
o Drawing RHR-207	15	1	15	2
o Drawing RHR-207	16	0	16	1
o Table RHR-207	1 thru 18	11/13/80	1 thru 18	11/24/81
o Drawing RHR-208	2	0	2	1
o Table RHR-208	1 of 1	11/13/80	1 of 1	11/24/81
o Drawing RHR-209	1	1	1	2
o Drawing RHR-209	2	0	2	1
o Table RHR-209	1 thru 3	11/13/80	1 thru 3	11/24/81
o Drawing RHR-210	4	0	4	1
o Drawing RHR-213	1	1	1	2
o Table RHR-213	1 thru 2	11/13/80	1 thru 3	11/24/81
o Table RHR-214	1 of 1	11/13/80	1 of 1	11/24/81
MS				
o Drawing MS-101	1	2	1	3
o Drawing MS-101	2	1	2	2
o Table MS-101	1 thru 8	11/13/80	1 thru 8	11/24/81
o Drawing MS-102	1	2	1	3
o Drawing MS-102	2	0	2	1
o Table MS-102	1 thru 8	11/13/80	1 thru 8	11/24/81
o Drawing MS-103	1	2	1	3
o Drawing MS-103	2	0	2	1
o Table MS-103	1 thru 8	11/13/80	1 thru 8	11/24/81

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MANUAL REVISION INSTRUCTIONS

TITLE	REV. PACKAGE NO.	DATE
WNP-2 PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
MS (Continued)				
o Drawing MS-104	2	1	2	2
o Table MS-104	1 thru 8	11/12/80	1 thru 8	11/24/81
o Drawing MS-104	1	0	1	1
o Drawing MS-105	2	0	2	1
o Drawing MS-105	3	0	3	1
o Table MS-106	1 of 1	11/13/80	1 of 1	11/24/81
o Drawing MS-201	1	1	1	2
o Drawing MS-201	2	1	2	2
o Drawing MS-201	3	2	3	3
o Drawing MS-201	4	1	4	2
o Drawing MS-201	New	---	5	0
o Table MS-201	1 thru 14	11/13/80	1 thru 14	11/24/81
o Drawing S-202	1	2	1	3
o Drawing MS-202	2	1	2	2
o Drawing MS-202	3	2	3	3
o Drawing MS-202	New	---	5	0
o Table MS-202	1 thru 14	11/13/80	1 thru 14	11/24/81
o Drawing MS-203	1	1	1	2
o Drawing MS-203	2	1	2	2
o Drawing MS-203	3	2	3	3
o Drawing MS-203	New	---	5	0
o Table MS-203	1 thru 12	11/13/80	1 thru 12	11/24/81
o Drawing MS-204	1	1	1	2
o Drawing MS-204	2	1	2	2
o Drawing MS-204	3	2	3	3
o Drawing MS-204	New	---	5	0
o Table MS-204	1 thru 12	11/13/80	1 thru 12	11/24/81
o Drawing MS-205	1	0	1	1
o Table MS-205	1 of 1	11/13/80	1 of 1	11/24/81
o Drawing MS-206	New	---	1	0
RFW				
o Drawing RFW-101	1	1	1	2
o Drawing RFW-101	3	2	3	3
o Drawing RFW-101	4	2	4	3
o Table RFW-101	1 thru 8	11/13/80	1 thru 8	11/24/81
o Drawing RFW-102	1	1	1	2
o Drawing RFW-102	3	2	3	3
o Drawing RFW-102	4	2	4	3
o Drawing RFW-102	5	2	5	3
o Tables RFW-102	1 thru 8	11/13/80	1 thru 8	11/24/81
RRC				
o Tables RRC-101	1 thru 18	11/13/80	1 thru 18	11/24/81
o Tables RRC-102	1 thru 17	11/13/80	1 thru 17	11/24/81
o Tables RRC-103	1 thru 2	11/13/80	1 thru 2	11/24/81

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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TITLE	REV. PACKAGE NO.	DATE
WNP-2 PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
RRC (Continued)				
o Tables RRC-104	1 thru 2	11/13/80	1 thru 2	11/24/81
o Tables RRC-105	1 thru 3	11/13/80	1 thru 3	11/24/81
o Tables RRC-106	1 thru 2	11/13/80	1 thru 2	11/24/81
o Tables RRC-107	1 thru 2	11/13/80	1 thru 2	11/24/81
o Tables RRC-108	1 thru 2	11/13/80	1 thru 2	11/24/81
o Tables RRC-109	1 thru 2	11/13/80	1 thru 2	11/24/81
o Tables RRC-110	1 of 1	11/13/80	1	11/24/81
o Tables RRC-111	1 of 1	11/13/80	1	11/24/81
RWCU				
o Drawing RWCU-101	2	1	2	2
o Drawing RWCU-101	4	2	4	3
o Drawing RWCU-101	5	1	5	2
o Tables RWCU-101	1 thru 8	11/13/80	1 thru 8.	11/24/81
o Drawing RWCU-301	New	--	1	0
o Tables RWCU-301	New	--	1	11/24/
o Drawing RWCU-302	New	--	1	0
o Drawing RWCU-303	New	--	1	0
o Drawing RWCU-303	New	--	2	0
o Tables RWCU-303	New	--	1	11/24/81
o Drawing RWCU-304	New	--	1	0
o Drawing RWCU-304	New	--	1	0
o Drawing RWCU-304	New	--	1	0
o Drawing RWCU-305	New	--	1	0

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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TITLE	REV. PACKAGE NO.	DATE
WNP-2 Program PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
SSW				
o Drawing SW-301	SSW-1	0	1 thru 6	0
o Drawing SW-302	New	--	1	0
o Drawing SW-303	New	--	1 thru 7	0
o Drawing SW-304	New	--	1	0
o Drawing SW-305	New	--	1 thru 4	0
o Drawing SW-306	New	--	1	0
o Drawing SW-307	New	--	1 thru 4	0
o Drawing SW-308	New	--	1	0
o Drawing SW-309	New	--	1	0
o Drawing SW-310	New	--	1	0
o Drawing SW-311	New	--	1	0
FPC				
o Drawing FPC-201	FPC-1	0	1	0
o Drawing FPC-202	New	--	1	0
o Drawing FPC-301	New	--	1 thru 8	0
o Drawing FPC-302	New	--	1 thru 4	0
o Drawing FPC-303	New	--	1 thru 4	0
o Drawing FPC-304	New	--	1 thru 5	0
o Drawing FPC-305	New	--	1 thru 10	0
o Drawing FPC-306	New	--	1	0
o Drawing FPC-307	New	--	1	0
o Drawing FPC-308	New	--	1 thru 4	0
RCC				
o Drawing RCC-201	RCC-1	0	1	0
o Drawing RCC-202	New	--	1	0
o Drawing RCC-301	New	--	1 thru 3	0
o Drawing RCC-302	New	--	1 thru 2	0

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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TITLE	REV. PACKAGE NO.	DATE
WNP-2 PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
START VOLUME 2				
10.0 Procedures	10-1	1	10-1	2
o Revised Description	10-2	0	10-2	1
	10-3	0	10-3	1
o Procedure list changed	10-4	1	10-4	2
	10-5	1	10-5	2
o Add or replace the following approved procedures				
o UTP-26 Tab 7	New	--	UTP-26	5
o UTP-14 Tab 10	New	--	UTP-14	1
o UTP-30 Tab 11	New	--	UTP-30	2
o UTP-~~34~~ Tab 16	New	--	UTP-33	5
o UTP-17 Tab 17	New	--	UTP-17	1
o MEP-2 Tab 22	MEP-2	0	MEP-2	1
o QCI-7-1 Tab 23	QCS&I-002	0	QCI-7-1	0
START VOLUME 3 - Tab 32				
o UTP-40 Tab 35	New	--	UTP-40	0
o UTP-41 Tab 36	New	--	UTP-41	1
o UTP-42 Tab 37	New	--	UTP-42	0
o UTP-44 Tab 38	New	--	UTP-44	1
o UTP-47 Tab 41	New	--	UTP-47	0

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WNP-2 PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
11.0 UT Calibration Standards				
o Introduction - changed	11-1	1	11-1	2
	11-2	0	11-2	0
o Table	11-3	1	11-4	1
	11-4	2	11-4	3
o Drawing UTCB-101	1	0	1	1
o Drawing UTCB-102	1	0	1	1
o Drawing UTCB-104	1	0	1	1
o Drawing UTCB-105	1	0	1	1
o Drawing UTCB-106	1	0	1	1
o Drawing UTCB-107	1	0	1	1
o Drawing UTCB-108	1	0	1	1
o Drawing UTCB-109	1	0	1	1
o Drawing UTCB-110	1	0	1	1
o Drawing UTCB-111	1	0	1	1
o Drawing UTCB-112	New	--	1	0
o Drawing UTCB-210 — NOT HERE	1	1	1	3
o Drawing UTCB-211 — NOT HERE	New	--	1	3
o Drawing UTCB-212 — NOT HERE	New	--	1	0
o Drawing UTCB-220	1	4	1	5
o Drawing UTCB-221	1	4	1	5
o Drawing UTCB-222 — not here	1	1	1	2
o Drawing UTCB-224	1	0	1	2
o Drawing UTCB-225	1	0	1	1
o Drawing UTCB-227	New	--	1	0
o Drawing UTCB-228	New	--	1	0
o Drawing UTCB-250	New	--	2	0
o Drawing UTCB-251	New	--	2	0
12.0 Management Plan				
o Revised to reflect Bechtel Power Corporation's role as construction manager.	12-1	0	12-1	1
	12-2	1	12-2	2
	12-4	1	12-4	2
	12-5	2	12-5	3
	12-8	1	12-8	2
	12-9	2	12-9	3
	12-12	1	12-12	2

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MANUAL REVISION INSTRUCTIONS

TITLE	REV. PACKAGE NO.	DATE
WNP-2 PSI Program Plan	3	12/14/81

DESCRIPTION OF THE CHANGE	REMOVE		INSERT	
	PAGE	REV.	PAGE	REV.
15.0 PSI Report Submittal				
o Added additional abbreviations used in result data base	15-3	0	15-3	1
	New	--	15-3a	0
	New	--	15-3b	0
	15-4	0	15-4	1

50-397

Superseded pgs. per
Amdt. 3 to Preservice Inspection
Program Plan ... ltr. dated 12/30/81

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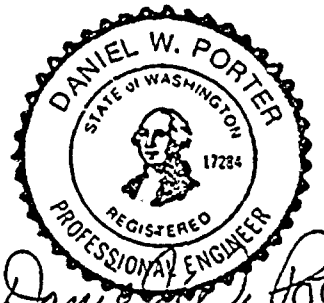
... 8201180457.

RECORD OF PROGRAM PLAN REVISIONS



Daniel W. Porter
2/13/79

NO.	DATE	REVISIONS	BY	CHK'D	APP'D
2	11/14/80	Issued Amendment 2	T.F. Hoyle	D.W. Porter	11-18-80
1	9/14/79	Issued Amendment 1	T.F. Hoyle	D.W. Porter	10-1-79
0	1/29/79	Issued for Use	T.F. Hoyle		J.T. Harrold 2/14/79

Date 11/14/80
Revision 2

TITLE	SHEET	DATE / REV	TITLE	SHEET	DATE / REV
Title Sheet	1	N/A	4.0 Code	4-1	0
Sign Orig.	1	0	Commitments		
Sign Amd 1	1	1			
Sign Amd 2	1	2	Table 4-1	1	0
1.0 Intro	1-1	0		2	1
	1-2	0		3	0
				4	0
2.0 Table of	2-1	2		5	0
Contents	2-2	2		6	0
3.0 Record of	3-1	2		7	0
Revisions	3-2	2		8	0
	3-3	2			
	3-4	2			
	3-5	2	5.0 FSAR	5-1	0
	3-6	2	Commitments	5-1A	0
	3-7	2		5-2	0
	3-8	2		5-3	0
	3-9	2		5-4	0
	3-10	2		5-5	0
	3-11	2		5-6	0
	3-12	2		5-7	0
	3-13	2		5-8	0
	3-14	2		5-9	0
	3-15	2		5-10	0
				5-11	0
				5-12	0
				5-13	0

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5.0 FSAR	5-14	1		5-41	0
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	5-16	0		5-43	0
	5-17	0		5-44	0
	5-18	0		5-45	0
	5-19	0		5-46	0
	5-20	0		5-47	0
	5-21	0		5-48	0
	5-22	0		5-49	0
	5-23	0		5-50	0
	5-24	0		5-51	0
	5-25	0		5-52	0
	5-26	0		5-53	0
	5-27	0		5-54	0
	5-28	0		5-55	0
	5-29	0		5-56	0
	5-30	0		5-57	0
	5-31	0		5-58	0
	5-32	0		5-59	0
	5-33	0			
	5-34	1			
	5-35	0	6.0 Program	6-1	0
	5-36	0	Description	6-2	0
	5-37	0		6-3	0
	5-38	0		6-4	0
	5-39	0		6-5	0
	5-40	0		6-6	0

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6.0 Continued	6-7	0	ISI-200	1	0
	6-8	0			
	6-9	0	ISI-217	1	1
	6-10	0		7-19	2
	6-11	2			
			ISI-219	1	0
				7-20	1
7.0 Boundary	7-1	0			
Diagrams	7-2	0	ISI-220	1	0
	7-3	2		7-21	0
	7-4	0			
	7-5	0	ISI-221	1	1
	7-6	1		2	0
	7-6a	0		7-22	1
	7-7	0		7-23	0
	7-8	0			
	7-9	1	ISI-222	1	0
	7-9a	0			
	7-9b	0		7-24	0
	7-10	0			
	7-11	0	ISI-223	1	0
	7-12	0		2	0
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	7-16	0	ISI-224	1	1
				2	1

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7.0 ISI-224	3	0			
Continued			8.0 Weld ID	8-1	1
	7-26	0	Diagrams	8-2	0
ISI-225	1	0			
	2	0	RPV-101	1	2
			Tables	1-33	11/13/80
	7-27	0			
ISI-226	1	1			
	2	2			
	7-28	1			
ISI-228	1	0			
	7-29	0	RPV-102	1	1
	7-30	0	Tables	1 and 2	11/13/80
ISI-229	1	1			
	2	1	RPV-105	1	0
	7-31	1			
			RPV-106	1	0
ISI-230	1	0			
	2	1	RPV-107	1	0
	7-32	1	RPV-108	1	0
			RPV-109	1	0

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8.0 Continued			RCIC-201	1	0
RPV-110	1	0		2	0
RPV-111	1	0			
			RCIC-202	1	0
RPV-112	1	0		2	0
				3	0
RPV-113	1	0		4	0
				5	0
RPV-114	1	0			
			RCIC-203	1	0
RPV-115	1	0		2	0
				3	0
RCIC-101	1	2	RCIC-204	1	0
	2	1		2	0
	3	0		3	0
				4	0
Tables	1-6	11/13/80	RCIC-205	1	0
				2	0
				3	0
RCIC-102	1	2		4	0
	2	2		5	0
	3	3		6	0
			HPCS-101	1	0
Tables	1-7	11/13/80		2	2

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8.0 Continued			RHR-105	1	1
Tables	1-4	11/13/80	Tables	1-3	11/13/80
HPCS-201	1	0			
	2	0	RHR-201	1	0
HPCS-202	1-6	0		2	0
LPCS-201	1	0		3	0
	2	0		4	0
LPCS-202	1	0		5	1
	2	0		6	0
	3	0		7	0
	4	0		8	0
	5	0		9	1
RHR-101	1	3		10	0
Tables	1-4	11/13/80		11	1
			Tables	1-14	11/13/80
RHR-102	1	3			
Tables	1-4	11/13/80	RHR-202	1	0
				2	0
RHR-103	1	3	Tables	1-2	11/13/80
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RHR-104	1	1	RHR-203	1	1
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				3	1
			Tables	1-5	11/13/80

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8.0 Continued			RHR-207	1	0
RHR-204	1	0		2	0
	2	0		3	0
	3	0		4	0
	4	0		5	0
Tables	1	11/13/80		6	0
				7	0
				8	1
RHR-205	1	1		9	0
	2	0		10	0
	3	0		11	0
	4	1		12	0
Tables	1-7	11/13/80		13	1
				14	0
				15	1
RHR-206	1	1		16	0
	2	0		17	0
	3	1	Tables	1-18	11/13/80
Tables	1-3	11/13/80			
			RHR-208	1	0
				2	0
				3	0
				4	0
				5	0
			Tables	1	11/13/80

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8.0 Continued			MS-102	1	2
RHR-209	1	1		2	0
	2	0	Tables	1-8	11/13/80
Tables	1-3	11/13/80			
			MS-103	1	2
RHR-210	1	0		2	0
	2	0	Tables	1-8	11/13/80
	3	0			
	4	0	MS-104	1	2
	5	0		2	1
			Tables	1-8	11/13/80
RHR-211	1	0			
	2	0	MS-105	1	0
	3	0		2	0
				3	0
RHR-212	1	0			
			MS-106	1	1
RHR-213	1	1		2	0
Tables	1-2	11/13/80		3	0
			Tables	1	11/13/80
RHR-214	1	1			
Tables	1	11/13/80	MS-201	1	1
				2	1
MS-101	1	2		3	2
	2	1		4	1
	3	0	Tables	1-14	11/13/80
Tables	1-8	11/13/80			

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8.0 Continued			RFW-101	1	1
MS-202	1	2		2	1
	2	1		3	2
	3	2		4	2
	4	1		5	3
Tables	1-14	11/13/80	Tables	1-8	11/13/80
MS-203	1	1	RFW-102	1	1
	2	1		2	1
	3	2		3	2
	4	1		4	2
Tables	1-12	11/13/80		5	2
			Tables	1-8	11/13/80
MS-204	1	1			
	2	1	RFW-103	1	1
	3	2	Tables	1-2	11/13/80
	4	1			
Tables	1-12	11/13/80			
			RRC-101	1	2
MS-205	1	0		2	1
Tables	1	11/13/80		3	1
				4	1
				5	1
				6	1
				7	1
				8	1
			Tables	1-18	11/13/80

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8.0 Continued			RRC-107	1	0
RRC-102	1	1	Tables	1-2	11/13/80
	2	2			
	3	1	RRC-108	1	0
	4	1	Tables	1-2	11/13/80
	5	1			
	6	1	RRC-109	1	0
	7	1	Tables	1-2	11/13/80
	8	1			
Tables	1-17	11/13/80	RRC-110	1	1
			Tables	1	11/13/80
RRC-103	1	0			
Tables	1-2	11/13/80	RRC-111	1	0
			Tables	1	11/13/80
RRC-104	1	1			
Tables	1-2	11/13/80	RWCU-101	1	2
				2	1
RRC-105	1	1		3	2
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				5	1
RRC-106	1	0	Tables	1-8	11/13/80
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8.0 Continued			10.0 Procedures	10-1	1
CRD	1	1		10-2	0
				10-3	0
SLC	1	0		10-4	1
				10-5	2
SSW	1	0			
FPC	1	0	11.0 UT Cal.	11-1	1
			Std.	11-2	0
RRC	1	0		11-3	1
				11-4	2
DW	1	0			
EDR-201	1	0	UTCB-101	1	0
FDR-201	1	0	UTCB-102	1	0
MSLC	1	0	UTCB-104	1	0
			UTCB-105	1	0
MISC	1	0	UTCB-106	1	0
			UTCB-107	1	0
9.0 Visual	9-1	2	UTCB-108	1	0
Exam. Prog.	9-2	2	UTCB-109	1	0
	9-3	2	UTCB-110	1	0
	9-4	2	UTCB-111	1	0
	9-5	2			
			UTCB-203	1	1
			UTCB-204	1	1

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UTCB-205	1	1	12.0 Continued	12-5	2
UTCB-206	1	1		12-6	1
UTCB-207	1	1		12-7	2
UTCB-208	1	1		12-8	1
UTCB-209	1	1		12-9	2
UTCB-210	1	1		10-10	2
				12-10a	0
	11-5	0		12-11	2
	11-6	1		12-12	1
	11-7	2		12-13	2
	11-8	1		12-14	0
	11-9	1		12-15	1
UTCB-220	1	4	LMT Management	Cover Sheet	1
UTCB-221	1	4	Plan	1	1
UTCB-222	1	1		2	1
UTCB-223	1	1		3	1
UTCB-224	1	0		4	1
UTCB-225	1	0		5	1
UTCB-226	1	0		6	1
				7	1
				8	1
12.0 Manage-	12-1	0		9	1
ment Plan	12-2	0		10	1
	12-3	2		11	1
	12-4	1		F	1

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LMT Company	1	0	APP 14B Contd.	14B-3	0
Policy	2	0		14B-4	0
	3	0		14B-5	0
	4	0		14B-6	0
	5	0		14B-7	0
	6	0		14B-8	0
	7	0		14B-9	0
	8	0		14B-10	0
				14B-11	0
				14B-12	0
				14B-13	0
13.0 QA	1	1		14B-14	0
				14B-15	0
14.0 Exam.	14-1	1		14B-16	0
Equipt.	14-2	1		14B-17	0
				14B-18	0
APP 14A	14A-1	0		14B-19	0
	14A-2	A		14B-20	
	14A-3	0		14B-21	0
				14B-22	0
RPV-103	1	1		14B-23	0
				14B-24	0
RPV-104	1	A		14B-25	0
				14B-26	0
				14B-27	0
APP 14B	14B-1	1		14B-28	0
	14B-2	0		14B-29	0

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APP 14B Contd	14B-30	0			
	14B-31	0			
	14B-32	0			
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	14B-34	0			
	14B-35	0			
	14B-36	0			
	14B-37	0			
	14B-38	0			
	14B-39	0			
	14B-40	0			
	14B-41	0			
	14B-42	0			
	14B-43	0			
15.0 PSI	15-1	1			
Report	15-2	1			
Submittal	15-3	1			
	15-4	1			

5.0--FSAR/NRC COMMITMENTS

5.1 FSAR COMMITMENTS

The Supply System committed in the WNP-2 FSAR to comply with the rules of the ASME Section XI, 1974 Edition with addenda through Summer 1976 for piping, pumps and valves. Subsequent to that commitment, it has become apparent that this commitment will not be acceptable for the preservice examinations outlined therein since 10CFR50.55a(b) will not be revised to accept Section XI addenda past Summer 1975 prior to the issuance of this Program Plan. We have, therefore, included in this section marked-up pages from the FSAR to reflect a Preservice Inspection Program which is in compliance, to the extent practical, to the 1974 Edition of ASME Section XI with addenda through Summer 1975. The Inservice Inspection Programs will be updated in accordance with the requirements of 10CFR50.55a.

NOTE: The above represents a voluntary upgrade of the RPV and piping examinations from the 1971 Edition of ASME Section XI with addenda through Winter 1971 to the 1974 Edition with addenda through Summer 1975.

WNP-2 PSI PROGRAM PLAN

N O T U S E D

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Date 1/8/79
Revision 0

WNP-2 FSAR

Below is a copy of the WNP-2 FSAR pages which apply to the WNP-2 Preservice Inspection Program Plan. The pages have been marked up to reflect a revised ASME Section XI code commitment from 1974 edition with addenda through Summer 1976 to 1974 edition with addenda through Summer 1975.

5.2.4 INSERVICE INSPECTION AND TESTING OF THE REACTOR COOLANT PRESSURE BOUNDARY

5.2.4.1 System Boundary Subject to Inspection

The system boundary subject to inspection includes all piping and components in quality Group A (ASME Boiler and Pressure Vessel Code, Section III, Class I). The WNP-2 reactor pressure vessel (RPV) will be examined in accordance with the 1974 requirements of the ~~1971~~ Edition of the ASME Boiler and Pressure Vessel Code, Section XI, including the ~~Winter 1971~~ Summer 1975 Addenda. All Class 1 piping, pumps and valves will be examined in accordance with the requirements of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976.~~ 1975

The design of the RPV shield wall and external inservice inspection system was completed prior to the promulgation of amendments to 10 CFR 50.55a which require the upgrading of the utility's inservice inspection code commitment for examinations subsequent to the baseline examination. The design has allowed some additional access for inspections and coverages anticipated to be required by later codes, where possible. The result of this effort has increased the areas on the RPV available to inservice inspection (approximately 35% of shell circumferential and 90% of vessel longitudinal welds are accessible) and has allowed the piping examination to be upgraded to conform to the requirements of the Summer 1975 ~~1976~~ Addenda to Section XI as far as practical. The owner has developed an inservice inspection program coordinated with plant design, which complies with the intent of 10 CFR 50.55a to the maximum extent possible.

An outline of inservice inspections to be performed on Class 1 components and piping pursuant to the requirements of the 1974 ~~1971~~ Edition of the ASME Boiler and Pressure Vessel Code, Section XI, including the ~~Winter 1971~~ Addenda for the RPV Summer 1975 and the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ for piping, 1975 pumps, and valves is included in Table 5.2-12.

5.2.4.2 Arrangement of Systems and Components to Provide Accessibility

Access for the purpose of inservice inspection is defined as the design of the plant with the proper clearances for examination personnel and/or equipment to perform inservice examinations during nuclear unit shut down. The reactor coolant pressure boundary for the WNP-2 RPV is designed to provide compliance with the provisions for access as required Subarticle IWA-1500 by ~~Paragraphs IS-141 and IS-142~~ of the ~~1971~~ Edition of the 1974 ASME Boiler and Pressure Vessel Code, Section XI, including the ~~Winter 1971~~ Addenda. The reactor coolant pressure Summer 1975 boundary for WNP-2 piping, pumps, and valves is designed to provide compliance with the provisions for access as required by Subarticle IWA-1500 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ 1975

Access is provided for volumetric examination of the pressure containing welds from the external surfaces of components and piping by means of removable insulation, removable shielding, and permanent tracks for remote inspection devices in areas where personnel access is restricted. The provisions for suitable access for inservice inspection examinations will minimize the time required for these inspections to be performed and, hence, will reduce the amount of radiation exposure to both plant and examination personnel. Working platforms have been provided at most strategic locations in the plant which permit ready access to those areas of the reactor coolant pressure boundary which are designated as inspection points in the inservice inspection program. Temporary scaffolding will be used as required to gain access for examination.

WPPSS has retained Southwest Research Institute to provide an independent assessment as to the suitability of plant access provisions for inservice inspection. This overview provided for identification of design modification or inspection technique development needs to ensure maximum practical compliance with code requirements.

5.2.4.2.1 Reactor Pressure Vessel

Access for inspection of the reactor pressure vessel will be as follows:

a. Access to the exterior surface of the reactor pressure vessel for inservice inspection is provided by removable insulation and shield plugs. Hinged shield wall plugs around nozzles are used to gain access for remote nozzle inspection devices. A minimum annular space of 8 1/4 inches is provided between the vessel exterior surface and the insulation interior surface to permit the insertion of remotely operated inspection devices between the insulation and the reactor vessel. The reactor pressure vessel nozzle insulation is removable. This design allows sufficient clearances for the mounting of a nozzle-to-shell examination device from tracks located either at the nozzle safe-end or at the pipe area. Examinations that can be performed from these tracks include the required coverage of the nozzle-to-shell welds and depending on technique, could provide examination coverage of the nozzle inner radius section and nozzle-to-safe-end weld. Access, geometry and radiation level considerations will determine those nozzles scheduled for manual examination.

b. The vessel flange area and vessel closure head can be examined during refueling outages using manual ultrasonic techniques. With the closure head removed, access is afforded to the upper interior clad surface of the vessel by removal of a steam dryer and steam separator assembly. Removal of these components also enables the examination of remaining internal components by remote visual techniques. The volumetric examination of the vessel-to-flange weld and closure head-to-flange weld can be performed by applying the search units directly to the seal surface areas.

c. The closure head is dry stored during refueling which will facilitate direct manual examination. Removable insulation will allow examination of the head welds from the outside surface. Reactor vessel nuts and washers are removed to dry storage for examination during refueling. Se-

lected studs will be removed to dry storage during refueling so that all the studs will be examined during the inspection interval.

d. Openings in the RPV support skirt are provided to permit access to the RPV bottom head for purposes of inservice examination. The examinations to be performed will include volumetric examinations of circumferential welds, portions of the meridional welds, portions of the dollar plate longitudinal welds, and visual examination of available penetration welds.

5.2.4.2.2 Piping, Pumps, and Valves

The physical arrangement of piping, pumps, and valves has been designed to allow personnel access to welds requiring inservice inspection. Modifications to the initial plant design have been incorporated where practicable to provide inspection access on Class 1 piping systems. Removable insulation has been provided on those piping systems requiring inspection. In addition, the placement of pipe hangers and supports with respect to those welds requiring inspection have been reviewed and modified where necessary to reduce the amount of plant support required in these areas during inspection. Working platforms have been provided to facilitate servicing of pumps and valves. Temporary platforms, scaffolding, and ladders will be provided to gain additional access for piping and some pump and valve examinations. An effort has been made to minimize the number of fitting-to-fitting welds within the inspection boundary. Welds requiring inspection have been located to permit ultrasonic examinations from at least one side, but where component geometries permit, access from both sides of the weld is provided. The surface of welds within the inspection boundary have been prepared to permit effective ultrasonic examination.

5.2.4.3 Examination Techniques and Procedures

Examination techniques and procedures, including any special technique and procedure, will be written in accordance with the requirements of Table ~~IS-261~~ of the ~~1971~~ Edition of the 1974 ASME Boiler and Pressure Vessel Code, Section XI, including the ~~Winter 1971~~ Addenda for reactor pressure vessel examinations, and Table IWB-2600 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ for piping, pump, and valve examinations. During plant design, an effort has been made to upgrade the requirement for calibration standards. Where upgrading was not feasible, material of the same P series with similar acoustic characteristics will be used.

IWB-2600
Summer 1975
1975

5.2.4.3.1 Equipment for Inservice Inspection

The equipment for inservice inspection of the reactor pressure vessel seam welds consists of remotely operated devices which travel over the vessel shell on permanently installed tracks between the vessel surface and the insulation. An electronic system with a receiver or data channel for each ultrasonic transducer will be used for acquiring and storing data when using remote automated examination equipment.

Tracks are located such that the devices are capable of moving ultrasonic transducers over the lengths of shell welds that are required to be examined inservice in the ~~1971~~ 1974 Edition of ASME B&PV Code, Section XI. This design does not preclude the use of remote examination devices that do not require tracks. Remote ultrasonic scanning equipment for examination of the nozzle-to-vessel welds can be supported and guided from tracks temporarily mounted on the pipe connected to the nozzle. The examination equipment will provide radial and circumferential motion to the ultrasonic transducer while rotating about the nozzle. Installation of the equipment can be accomplished through the access openings provided at each nozzle location.

Mechanized surface examination techniques, if utilized, will provide results which are at least equivalent to those obtainable by manual surface techniques.

Remote visual examination techniques will provide a resolution capability which is at least equivalent to that required for direct visual observation.

Procedures governing such examinations will be qualified prior to examinations in the WNP-2 plant.

5.2.4.3.2 Coordination of Inspection Equipment With Access Provisions

Access to areas of the plant requiring inservice inspection is provided to allow use of standard equipment wherever practicable. Design in general provides for free space envelopes both radially and axially from welds to be examined so standard manual examination equipment may be utilized. Any special equipment or techniques used will achieve the sensitivities required by the Codes.

Access is provided for the installation of remote examination

devices on the vessel tracks by means of hinged nozzle shield doors, removable hatches and panels, or personnel access hatches in the sacrificial shield.

5.2.4.3.3 Manual Examination

In areas where manual ultrasonic examination is performed, all reportable indications will be mapped and records made of maximum signal amplitude, depth below the scanning surface, and length of reflector. The data compilation format will be such as to provide for comparison of data from subsequent examinations. Radiographic techniques may be used where ultrasonic techniques are not applicable. In areas where manual surface or direct visual examinations are performed, all reportable indications will be mapped with respect to size and location in a manner to allow comparison of data from subsequent examinations.

5.2.4.4 Inspection Intervals

The inspection interval, as defined in Section XI, is ten years. These inspection intervals represent calendar years after the reactor facility has been placed into commercial service. The interval may be extended by as much as one year to permit inspections to be concurrent with plant outages. The frequency of examinations within each inspection interval is defined in Table 5.2-12 for each category. All examinations in Table 5.2-12 will be conducted once prior to plant start-up except that examinations will be extended to include essentially 100% of the pressure containing welds.

5.2.4.5 Examination Categories and Requirements

Examination categories and requirements are defined in Table 5.2-12 and closely follow the categories and requirements specified in Tables ~~IS-251~~ and ~~IS-261~~ of the ~~1971~~ Edition of the ASME Boiler and Pressure Vessel Code, Section XI for the reactor pressure vessel and Tables IWB-2500 and IWB-2600 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ 1975 for piping, pumps, and valves.

IWB-2500
IWB-2600

1974 with addenda thru Summer 1975

5.2.4.6 Evaluation of Examination Results

Evaluation of examination results for the reactor pressure vessel baseline examination will be conducted in accordance with ~~Paragraph IS-311~~ of the ~~1971~~ Edition of the ASME Boiler and Pressure Vessel Code, Section XI, including the Winter ~~1971~~ Addenda. Evaluation of examination results for piping, pumps, and valves will be conducted in accordance with

Article IWB-3000 1975

1974

Article IWB-3000 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ 1975

5.2.4.7 System Leakage and Hydrostatic Pressure Tests

The hydrostatic test for the reactor pressure vessel will be conducted in accordance with the requirements of ~~IS-500~~ of IWB-5000 1974 the ~~1971~~ Edition of the ASME Boiler and Pressure Vessel Code, Section XI, including the ~~Winter 1971~~ Addenda. The initial Summer 1975 piping system leakage and hydrostatic tests will be performed in accordance with Articles IWA-5000 and IWB-5000, of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~. Subsequent system leak tests will be conducted prior to start-up following each reactor refueling outage. A system hydrostatic test will be conducted at or near the end of each inspection interval. Examinations performed during these tests may be conducted without the removal of insulation as permitted by Code. 1975

5.2.4.8 Inservice Inspection Commitment

All quality Group A components will be examined once prior to start-up in accordance with the above requirements. This IWB-2100 preoperational examination will serve to satisfy the requirements of ~~IS-232~~ of the ~~1971~~ Edition of the ASME Boiler and Pressure Vessel Code, Section XI, including the ~~Winter 1971~~ Summer 1975 Addenda for the reactor pressure vessel and Subarticle IWB-2100 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ 1975 for piping, pumps, and valves. (See 3.9.6 for program for pumps and valves.) Subsequent in-service inspection of the WNP-2 plant will be performed in accordance with the requirements of 10CFR50.55a subparagraph (g) to the extent practical. 1974

TABLE 5.2-12

POSTOPERATIONAL INSPECTIONS
CLASS 1

SECTION A. REACTOR VESSEL

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks (*)
B- 1.1	B-A	Longitudinal and circumferential shell welds in core region	Volumetric	5% of the length of circumferential welds; 10% of the length of the longitudinal welds.	The required examination may be performed at or near the end of the 10-year inspection interval. The examinations will be performed from the outside surface of the reactor pressure vessel. When the longitudinal and circumferential welds have received an exposure to neutron fluence in excess of 10^{19} nvt (E_n of 1 Mev or above), the length of weld in the high fluence region to be examined shall be increased to at least 50 percent.
B- 1.2	B-B	Longitudinal and circumferential welds in vessel shell and meridional and circumferential welds in vessel heads (other than those of Categories A and C)	Volumetric	5% of the length of circumferential shell and head welds; 10% of the length of the longitudinal shell welds and meridional head welds.	The required amount of weld lengths may be examined at or near the end of the 10-year inspection interval. An examination is planned from the outside surface without removing the vessel internals.
B- 1.3	B-C	Vessel-to-flange and head-to-flange circumferential welds	Volumetric	Cumulative 100% of each circumferential weld	Both welds are available for examination during normal refueling operations. Either mechanized or manual ultrasonic techniques will be used.

*A repair area exceeding 10% nominal wall thickness exists in the beltline region. The location of the repair area is positively and accurately known. The repair area will be examined in accordance with the requirements of Examination Category B-A. (Summer 1975 addenda).

TABLE 5.2-12 (Continued)

SECTION A. REACTOR VESSEL

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B- 1.4	B- D	Primary nozzle-to-vessel welds and the integral extension of the nozzle inside the vessel	Volumetric	Cumulative 100% of each nozzle-to-shell weld and nozzle inner radius of the following nozzles: Recirculation outlet Recirculation inlet Steam outlet Feedwater Core Spray Low pressure Core Spray High pressure RHR/LPCI Mode Jet Pump Instrumentation CRD Hydraulic System Return Head Spray ~~Closure Head Instrumentation~~ Closure Head Spare	It is planned that these components be examined from the outside surface. Either mechanized or manual ultrasonic techniques will be used. Tracks will be attached to pipe immediately adjacent to each nozzle forging when mechanized techniques are used. head vent
~~1.5~~ B-1.18	~~B-1~~ B-0	The areas subject to examination shall include those pressure-containing welds ~~in reactor vessel head~~, in control rod drive housings, ~~and at vessel instrument penetrations.~~	Volumetric	NONE IWB-1220(b)(1) IWB-1220(b)(1)	These pressure containing welds of reactor control rod drive penetrations meet the exclusion criterion of ~~IG-121~~ and are required to be visually examined, rather than volumetrically examined; since analysis of the rod ejection accident complies with the NRC General Design Criteria. Vessel instrument penetrations meet the exclusion criterion ~~IG-121~~ and are required to be visually examined. (Category B-P)

~~5.2-61~~

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TABLE 5.2-12 (Continued)

SECTION A. REACTOR VESSEL

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B1.5 ~~1.6~~	~~B-2~~ B-E	Pressure containing welds of reactor control rod drive penetrations in reactor vessel head, of the control rod drive housings, and of vessel instrumentation penetrations.	Visual	Cumulative 25% of the control rod drive and instrumentation penetration pressure containing welds.	Access to instrumentation and control rod drive penetrations in the vessel head is provided through the shield wall with removable insulation panels.
B1.6 ~~1.7~~	B- F	Primary nozzle to safe-end welds			See Table 5.2-~~9~~ 12 Section B, Item B4.1
B1.7, 1.8	B-G-1	Closure studs and nuts	Visual, volumetric, and surface	Cumulative 100% will be examined.	Regulatory Guide 1/65, Note (a).
B-1.9	B-G-1	Ligaments between threaded stud holes	Volumetric	Cumulative 100% of the vessel flange ligaments between threaded stud holes will be examined.	Note (a).
B-1.10	B-G-1	Closure washers, bushings	Visual	Cumulative 100% will be examined.	Note (a).
B-1.11	B-G-2	Pressure-retaining bolting	Visual	Cumulative 100% will be examined.	Note (a).
B-1.12	B-H	Integrally welded vessel supports	Volumetric	10% of the lineal feet of the support skirt-to-vessel weld will be examined.	

TABLE 5.2-12 (Continued)

SECTION A. REACTOR VESSEL

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B-1.13	B-I-1	Closure head cladding	Visual and surface	None	Closure head is not clad.
B-1.14	B-I-1	Vessel interior clad surfaces	Visual	Cumulative, 6 patches (each 6 x 6-in.) evenly distributed in accessible sections of vessel shell.	
B-1.15 1.16	B-N-1 B-N-2	Interior surfaces and internals and integrally welded internal supports	Visual	Integrally welded internal supports will be examined each interval. Internals and interior surfaces of the vessel will be examined at the first refueling outage and during subsequent refueling outages at approximately 3-year intervals.	
B-1.19	B-P	Exempted components	Visual		IWA-5000

TABLE 5.2-12 (Continued)

SECTION B. PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B4.1	B-F	Safe end-to-piping welds and safe-ends in branch piping welds to include base metal for a distance of 1/2T or 1 inch, whichever is smaller.	Volumetric and surface	Cumulative 100% of the dissimilar metal welds will be examined by the end of the interval. Note (a).	1st Inspection Interval The volumetric and surface examinations will include 100% of each dissimilar metal weld. For reactor vessel nozzle dissimilar metal welds (i.e., safe-ends), the examinations may be performed coincident with the reactor vessel nozzle examinations. Successive Inspection Intervals The volumetric and surface examinations performed during each inspection interval shall include 100% of those dissimilar metal welds in the piping runs selected for examination in the Examination Category B-J. For reactor vessel nozzle dissimilar metal welds (i.e., safe-ends), the examinations may be performed coincident with the reactor vessel nozzle examinations.
B4.2 B4.3	B-G-1	Pressure-retaining bolts and studs greater than 2 inch diameter	Volumetric and surface	Cumulative 100% of the bolts, studs, nuts, ~~and flange ligaments between threaded stud holes~~ in the piping runs	All bolting larger than 2* inches in diameter will be examined in place under tension, when the bolting is surface examination performed only when bolts are removed.

*Refer to Section 7, Exceptions and Exemptions, for justification for this exception.

TABLE 5.2-12 (Continued)

SECTION B. PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
				selected for examination in the Examination Category B-J will be examined by the end of the interval. Note (a).	removed, or when the bolted connection is disassembled.
B4.4	B-G-1	Pressure-retaining bolting greater than 2-inch diameter	Visual	The examinations performed during each inspection interval will include 100% of the bolts, studs, nuts, bushings, and threads in base material, and flange ligaments between threaded holes in the piping runs selected for examination in the Examination Category B-J.	All bolting larger than 2 inches in diameter will be examined in place under tension, when the bolting is removed, or when the bolted connection is disassembled. *
B4.5	B-J	Circumferential piping welds ~~in nominal pipe sizes 4 inches and greater~~ to include base metal for a distance of 1/2T or 1 inch, ** whichever is smaller, to each side of the weld, and at least ~~a pipe diameter length but not more than~~ 12 inches of each longitudinal weld intersecting the circumferential welds required to be examined.	Volumetric *** and surface	~~The examination performed during each inspection interval will include 100% of the welds in the following portions of the reactor coolant pressure boundary:~~ ~~(a) one reactor coolant recirculation loop;~~ ~~(b) one branch run representative of an essentially symmetric piping configuration among each group of branch runs that are connected to a loop and that perform similar system functions;~~ ~~(c) one steam line run representative of an essentially symmetric piping configuration among the runs;~~	The initially selected welds will be reexamined during each inspection interval. 100% of the Class 1 piping welds will be examined during the baseline. The Inservice Programs will be in accordance with 10CFR50.55a

*Refer to Section 7, Exceptions and Exemptions , for justification for this exception.
**Refer to Section 10, Code Exceptions, for use of Appendix III to ASME Section XI.
***Surface examination is a WPPSS augmented requirement.

SECTION B. PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
				(d) one feedwater line run representative of an essentially symmetric piping configuration among the runs; (e) each piping and branch exclusive of the categories of loops and runs that are part of the system piping of (a) to (d) above. Note (a).	
~~B4.5~~	~~B-J~~	Circumferential piping welds in nominal pipe sizes less than 4 inches in diameter to include base material for a distance of 1/2T or 1 inch, whichever is smaller, to each side of the weld.	~~Surface~~	The examination performed during each inspection interval will include 100% of the welds in piping less than 4-inch nominal diameter which is in or connected to the following portions of the reactor coolant pressure boundary: (a) one reactor coolant recirculation loop; (b) one branch run representative of an essentially symmetric piping configuration among each group of branch runs that are connected to a loop and that perform similar system functions; (c) one steam line run representative of an essentially symmetric piping configuration among the runs;	~~The initially selected welds will be reexamined during each inspection interval.~~

TABLE 5.2-12 (Continued)

SECTION B. PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
				(d) one feedwater line run representative of an essentially symmetric piping configuration among the runs; (e) each piping and branch exclusive of the categories of loops and runs that are part of the system piping of (a) to (d) above. Note (a).	
B4.6	B-J	Branch connection welds >6" dia.	~~Surface~~ Volumetric	The examinations performed during each inspection interval will include 100% of the branch connection welds in the following portions of the reactor coolant pressure boundary:	~~The initially selected welds will be reexamined during inspection interval.~~
B4.7	B-J	Branch connection welds <6" dia.	Surface	(a) one reactor coolant recirculation loop; (b) one branch run representative of an essentially symmetric piping configuration among each group of branch runs that are connected to a loop and that perform similar system functions; (c) one steam line run representative of an essentially symmetric piping configuration among the runs; (d) one feedwater line run representative of an essentially symmetric piping configuration among the runs;	100% of the Class 1 branch connection welds will be examined during the baseline. The In-service Programs will be in accordance with 10CFR50.55a

~~5.2-67~~

TABLE 5.2-12 (Continued)

SECTION B. PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
				(e) each piping and branch exclusive of the categories of loops and runs that are part of the system piping of (a) to (d) above. Note (a).	
B4.8	B-J	Socket Welds	Surface	The examination performed during each inspection interval will include 100% of the socket welds in or associated with the following portions of the reactor coolant pressure boundary: (a) one reactor coolant recirculation loop. (b) one branch run representative of an essentially symmetric piping configuration among each group of branch runs that are connected to a loop and that perform similar system functions; (c) one steam line run representative of an essentially symmetric piping configuration among the runs; (d) one feedwater line run representative of an essentially symmetric piping configuration among the runs;	~~The initially selected welds will be reexamined during each inspection interval.~~ 100% of nonexempt socket welds will be examined during the baseline. The Inservice Programs will be in accordance with 10CFR50.55a

TABLE 5.2-12 (Continued)

SECTION B. PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
				~~(c) each piping and branch exclusive of the categories of loops and runs that are part of the system piping of (a) and (d) above. Note (a).~~	
B4.9	B-K-1	Integrally welded supports	Volumetric	The examinations performed during each inspection interval will cover 25% of the integrally-welded supports in the piping runs selected for examination in the Examination Category B-J Note (a).	The areas will include the integrally welded external support attachments. This includes the welds to the pressure-retaining boundary and the base metal beneath the weld zone and along the support attachment member for a distance of two support thicknesses.
B4.10	B-K-2	Support components	Visual	The examinations performed during each inspection interval will cover 100% of the support components in the piping runs selected for examination in the Examination Category B-J. Note (a).	The areas will include the support components that extend from the piping attachment to and including the attachment to the supporting structure. The support settings of constant and variable spring type hangers, snubbers, and shock absorbers will be verified.

TABLE 5.2-12 (Continued)

SECTION B. PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B4.11	B-P	Exempt and non-exempt components	Visual (IWA-5000)	All components will be examined in accordance with IWA-5000 during each system leakage test and each system hydrostatic test required by IWB-5000.	
B4.12	B-G-2	Pressure-retaining bolting 2 inches or smaller in diameter	Visual	The examinations performed during each inspection interval will cover 100% of the bolts, studs, and nuts in the piping runs selected for examination in the Examination Category B-J. Note (a).	Bolting will be examined in place under tension, when the bolting is removed, or when the connection is disassembled.

TABLE 5.2-12 (Continued)

SECTION C. PUMPS

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
~~B5.1~~ B5.2	B-G-1	Pressure-retaining bolts and studs greater than 2 inch diameter	Volumetric and Surface	The examinations performed during each inspection interval will include 100% of the bolts, studs, nuts, and flange ligaments between threaded holes.	The surface and volumetric examination of bolts and studs on pumps will be limited to those pumps of Examination Category B-L-1 and may be deferred to the end of the inspection interval*
B5.3	B-G-1	Pressure-retaining bolting greater than 2 inch diameter	Visual	The examinations performed during each inspection interval will include 100% of the bolts, studs, nuts, bushings, and threads in base material, and flange ligaments between threaded holes. Bushings may be inspected in place. Note (a).	The visual examination of bolting greater than 2 inches in diameter will be performed on those pumps of Examination Category B-L-1 under tension, when the bolting is removed, or when the connection is disassembled.
B5.4	B-K-1	Integrally-welded supports	Volumetric	The examinations performed during each inspection interval will cover 25% of the integrally welded supports. Note (a).	The areas will include the integrally welded external support attachments to those pumps selected for examination in the Examination Category B-L-1. This includes the welds to the pressure-retaining boundary and the base metal beneath the weld zone and along the support attachment member for a distance of two support thicknesses.

*Refer to Section 7, EXCEPTIONS AND EXEMPTIONS, for justification for exempting all bolting 2" in diameter and less.

TABLE 5.2-12 (Continued)

SECTION C. PUMPS

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B5.5	B-K-2	Support components	Visual	The examinations performed during each inspection interval will cover 100% of the support components. Note (a).	The areas will include the support components that extend from the pump attachments to and including the attachment to the supporting structure. Examinations will be limited to those pumps of Examination Category B-L-1. The support settings of constant and variable spring type hangers, snubbers, and shock absorbers will be verified.
B5.6	B-L-1	Pump casing welds and base metal for one ~~half~~ wall thickness beyond the edge of the weld.	Volumetric	100% of the pressure-retaining welds in the pump casing will be examined, if possible, when the pump is disassembled for maintenance. One pump in each group performing similar functions will be examined.	Radiographic techniques are at present the most feasible approach. A question remains as to whether the radiation levels in the component may prevent the use of radiographic techniques. If experience or a study indicates that such radiography is possible, the examination will be performed at the frequency indicated. This examination may be performed at or near the end of the inspection interval.

TABLE 5.2-12 (Continued)

SECTION C. PUMPS

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B5.7	B-L-2	Pump casing internal pressure boundary surface	Visual	When one of the pumps is disassembled for maintenance the available internal surfaces will be examined. One pump in each group performing similar functions will be examined.	These examinations may be performed at or near the end of the inspection interval on the same pumps selected for the Category B-L-1 examinations.
B5.8	B-P	Exempt and non-exempt components	Visual	All components will be examined in accordance with IWA-5000 during each system leakage test and each system hydrostatic test required by IWB-5000.	
B5.9	B-G-2	Pressure retaining bolting 2 inches and smaller in diameter	Visual	The examinations performed during each inspection interval will cover 100% of the pressure-retaining bolts, studs, and nuts. Note (a).	Bolting will be examined in place under tension, when the bolting is removed, or when the connection is disassembled. Examinations will be limited to those pumps selected for examination in the Examination Category B-L-1.

TABLE 5.2-12 (Continued)

SECTION D. VALVES

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B6.2	B-G-1	Pressure-retaining bolts and studs greater than 2-inch diameter	Volumetric and Surface	The examination performed during each inspection interval will include 100% of the bolts, studs, nuts, and flange ligaments between threaded holes	The surface and volumetric examination of bolts and studs on valves will be limited to those valves of Examination Category B-M-1 and may be deferred to the end of the inspection interval.*
B6.3	B-G-1	Pressure-retaining bolting greater than 2-inch diameter	Visual	Examinations performed during each inspection interval will include 100% of the bolts, studs, nuts, bushings, and threads in base material, and flange ligaments between threaded holes. Bushings may be inspected in place. Note (a).	This visual examination of bolting greater than 2-inches in diameter will be performed with the bolting in place under tension, when the bolting is removed, or when the connection is disassembled. Examinations will be limited to those valves selected for examination in the Examination Category B-M-1.*
B6.4	B-K-1	Integrally-welded supports	Volumetric	The examinations performed during each inspection interval will cover 25% of the integrally-welded supports Note (a).	The areas will include the integrally-welded external support attachments to those valves selected for examination in the Examination Category B-M-1. This includes the welds to the pressure-retaining boundary and the base metal beneath the weld zone and along support attachment member for a distance of two support thicknesses.

*Refer to Section 7, EXCEPTIONS AND EXEMPTIONS, for justification for exempting all bolting 2" in diameter and less.

TABLE 5.2-12 (Continued)

SECTION D. VALVES

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B6.5	B-K-2	Support components	Visual	The examinations performed during each inspection interval will cover 100% of the support components. Note (a).	The areas will include the support components that extend from the valve attachment to and including the attachment to the supporting structure. Examinations will be limited to those valves of Examination Category B-M-1. The support settings of constant and variable spring type hangers. Snubbers, and shock absorbers will be verified.
B6.6	B-M-1	Valve body welds	Volumetric	100% of the pressure-retaining welds in at least one valve within each group of valves that are of the same construction design (e.g., globe, gate, or checkvalve), manufacturing method and manufacturer and that are performing similar functions in the system (e.g., containment isolations, etc.)	Examinations will be performed at or near the end of the interval.

TABLE 5.2-12 (Continued)

SECTION D. VALVES

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
B6.7	B-M-2	Internal pressure boundary surfaces on valves exceeding 4-inch nominal pipe size.	Visual	One valve in each group of the same design (e.g., globe, gate, or check valve), manufacturing method, and manufacturer that performs similar functions in the system will be examined each interval.	Examinations may be performed at or near the end of the interval.
B6.8	B-P	Exempt and non-exempt components	Visual (IWA-5000)	All components will be examined in accordance with IWA-5000 during each system leakage test and each system hydrostatic test required by IWB-5000.	
B6.9	B-G-2	Pressure-retaining bolting 2 inches and smaller in diameter	Visual	The examinations performed during each inspection interval will cover 100% of the pressure-retaining bolts, studs, and nuts. Note (a).	Bolting will be examined in place under tension, when the bolting is removed or when the connections is disassembled. Examinations will be limited to those valves selected for examination in the Examination Category B-M-1.

Note (a): At least part of the overall total of required examinations will be performed by the expiration of 1/3, 2/3, and the end of the 10-year interval.

6.6 INSERVICE INSPECTION OF ASME CODE CLASS 2 AND CLASS 3 COMPONENTS

This section addresses the preservice and inservice inspections of quality Group B and C (ASME Boiler and Pressure Vessel Code, Section III, Class 2 and 3) components as required by the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ 1975.

6.6.1 COMPONENTS SUBJECT TO EXAMINATION

All Class 2 components subject to examination are listed in Table 6.6-1. These components are essentially those defined by Subarticle IWC-1200 and will be examined in accordance with Table 6.6-1. The preservice examination will be performed in accordance with the requirements of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ 1975 including Appendix III.

All Class 3 components will be tested preservice in accordance with the requirements of Subarticle IWD-1200. Subsequent inservice inspection and testing of Class 2 and 3 components will be performed in accordance with the requirements of 10CFR50.55a, subparagraph (g), to the extent practical.

Components voluntarily upgraded to higher Code classes than required by their performance function will be subject to the requirements of Section XI applicable to the function related Code Class identified within the context of Regulatory Guide 1.26 (Rev. 1). The radwaste systems and off-gas system, excluding piping and valves forming part of the containment boundary, are not subject to preservice or inservice inspections.

6.6.2 ACCESSIBILITY

Access for inspection incorporated into the WNP-2 design of Class 2 and 3 piping, pumps and valves, exceeds the access requirements of ASME B&PV Code, Section XI mandatory by date of issuance of the Construction Permit. To the extent practical, access is provided in design for compliance with Subarticle IWA-1500 of the 1974 Edition of the ASME B&PV Code, Section XI, with Addenda through Summer ~~1976~~ 1975. The status of design and manufacture of individual components such as RHR pumps and RHR heat exchangers precluded compliance with all subsequent Section XI Editions and Addenda issued. WPPSS has retained Southwest Research Institute to provide an independent assessment as to the suitability of plant

access provisions for inservice inspection. This overview provided for identification of design modifications or inspection technique development and ensures maximum practical compliance with Code requirements. Access is provided for volumetric examination of the pressure-containing welds from the external surfaces of Class 2 components and piping. Consideration has been given to the inspectability of the Class 2 and 3 systems in the design of components, in the equipment layout, and in the support structures to permit access for the purpose of inservice inspection.

Access for the purpose of inservice inspection is defined as plant design with the proper clearances for examination personnel and/or equipment to perform inservice examinations during plant shutdown. Access requirements have been considered in the design of components, weld joint configuration, and system arrangements to facilitate inspection. Access to welds requiring volumetric examination has been provided by means of removable insulation and/or removable structures. The provisions for suitable access for inservice inspection examinations will minimize the time required for these inspections to be performed and, hence, will reduce the amount of radiation exposure to both plant and examination personnel. Working platforms have been provided to facilitate servicing of some pumps and valves. Temporary platforms, scaffolding and ladders will be provided to gain additional access to piping, pumps and valves. A conscientious effort has been made to minimize the number of fitting-to-fitting welds within the inspection boundary. Welds requiring volumetric inspection have been located to permit ultrasonic examinations from at least one side, but where component geometries permit, access from both sides of the weld is provided. The surface of welds within the inspection boundary have been prepared to permit effective ultrasonic examination.

6.6.3 EXAMINATION TECHNIQUES AND PROCEDURES

Inspection categories, inspection techniques, inspection frequencies, and evaluation of Class 2 examination data shall be in accordance with the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda 1975 through Summer ~~1976~~. Manual ultrasonic examination techniques will be used for most volumetric examinations of Class 2 components. All reportable indications will be mapped and records will be made of maximum signal amplitude,

depth below the scanning surface, and length of reflector. The data compilation format will be such as to provide for comparison of data from subsequent examinations. Radiographic techniques may be used where ultrasonic techniques are not applicable. For areas where manual surface examinations or direct visual examinations are to be performed, all reportable indications are to be mapped with respect to size and location in a manner to allow comparison of data to subsequent examinations.

Class 3 components may be examined during hydrostatic testing or during operations without removing insulation as permitted by Code.

During plant design, a conscientious effort has been made to upgrade the requirements for calibration standards. Where upgrading was not permitted, materials of the same P series with similar acoustic characteristic will be used.

6.6.4 INSPECTION INTERVALS

The inservice inspection schedule for Class 2 system components will be developed in accordance with the requirements of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~, Subarticle IWC-2400. The schedule for the inspection of Class 3 system components will be developed in accordance with the requirements of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~, Subarticle IWD-2400. The required examinations in each system shall be divided so that an approximately equal number of examinations are conducted during each of the four 10-year inspection intervals. Hydrostatic tests and examinations of Class 3 systems will be conducted near the end of each 10-year interval. In addition, Class 3 components will be examined during operation once every three-and-one-third years.

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1975

6.6.5 EXAMINATION CATEGORIES AND REQUIREMENTS

Inservice inspection categories and requirements for Class 2 components and piping are in agreement with Table IWC-2600 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~. Categories are listed in Table 6.6-1.

1975

6.6.6 EVALUATION OF EXAMINATION RESULTS

Evaluation of examination results of Class 2 components will be in accordance with Article IWC-3000 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ 1975. Evaluation of examination results of Class 3 components will be in accordance with Article ~~IWD~~ IWB-3000 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through ~~Summer 1976.~~ Summer 1975

6.6.7 SYSTEM PRESSURE TEST

Class 2 systems subject to hydrostatic tests will be tested in accordance with Article IWC-5000 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ 1975.

Class 3 systems subject to hydrostatic tests will be tested in accordance with the requirements of Article IWD-5000 of the 1974 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through Summer ~~1976~~ 1975.

6.6.8 AUGMENTED INSERVICE INSPECTION TO PROTECT AGAINST POSTULATED PIPING FAILURES

An augmented inservice inspection program is not applicable to WNP-2 as there is no Class 2 or 3 piping greater than 1-inch penetrating the containment, classified as high energy during normal operation.

TABLE 6.6-1

POSTOPERATIONAL INSPECTIONS
CLASS 2

SECTION A PRESSURE VESSELS

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C1.1	C-A	Circumferential butt welds	Volumetric	The examinations performed during each inspection interval will include ~~100%~~ 20% of each weld.	The areas of examination include shell and head circumferential welds which are gross structural discontinuties (see subparagraph NB-3213.2 of Section III, Nuclear Power Plant Components) in vessels exceeding 4-inch nominal diameter. See Notes (a) and (b) In the case of multiple vessels of similar design, size, and service (e.g., heat exchangers), the examinations may be conducted on only one vessel or distributed among the vessels. The vessel areas selected for the initial examination shall be reexamined over the service lifetime of the component.
C1.2 d	C-B	Nozzle-to-vessel welds t = 1/2 inch or less	Volumetric ~~Surface~~	The examination performed during each inspection interval will include 100% of the welds ~~in those nozzles that are the terminal ends of piping runs selected for examination under Examination Category C-F.~~	~~The nozzles selected initially for examination will be reexamined over the service lifetime of the component. See Note (a).~~

~~6.6-5~~

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TABLE 6.6-1 (Continued)

SECTION A PRESSURE VESSELS

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
~~C1.1~~ C1.2b	C-B	Nozzle-to-vessel welds t greater than 1/2 inch	Surface* and volumetric	The examination performed during each inspection interval will include 100% of the welds ~~in those nozzles that are the terminal ends of the piping runs selected for examination under Examination Category C-F.~~	The nozzles selected initially for examination will be reexamined over the service lifetime of the component. See Notes (a) and (b). Problem
~~C1.4~~ C1.3	C-C	Integrally welded supports for vessels ~~whose support base material design thickness exceeds 1/2 inch~~	Surface	The examination performed during each inspection interval will include 100% of the required areas.	In the case of multiple vessels of similar support design and service, the examinations may be conducted on only one vessel. In the case of multiple vessels with multiple support elements, the examination of the support elements may be distributed among the vessels. The areas selected for the initial examination will be reexamined over the service lifetime of the component. See Note (a).

*Surface examination is a WPPSS augmented requirement.

TABLE 6.6-1 (Continued)

SECTION A PRESSURE VESSELS

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
~~C1.5~~ C1.4	C-D	Pressure-retaining bolting greater than 2-inch diameter.*	Volumetric	The examination performed during each inspection interval will include 100% of bolts and studs of each bolted connection of pressure-retaining components required to be inspected.	This examination may be performed on bolting in place under load or upon disassembly of the connection. The examination of bolting may be conducted on one vessel among a group of vessels, in each system required to be inspected, that are similar in design, size, function, and service. In addition, where the one component to be inspected contains a group of bolted connections of similar design and size (e.g., flange connections, manway covers), the examination may be conducted on one bolted connection among the group. See Note (a).
~~C1.6~~	~~C-D-2~~	~~Support components for vessels~~	~~Visual~~	~~The examination performed during each inspection interval will cover all support components of components required to be examined under Examination Category C-C.~~	~~The areas will include the support components that extend from the vessels to the supporting structures.~~ ~~The functional operability of spring-type hangers, snubbers, and shock absorbers will be confirmed. See Note (a).~~

*Refer to Section 7, "Exceptions and Exemptions", for justification for exempting bolting 2 inch in diameter and less.

TABLE 6.6-1 (Continued)

SECTION B PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C2.1 C2.2	C-F , C-G	Piping butt welds t = 1/2 inch or less	Surface *	The examination performed during each inspection interval will cover 100% of the welds in those portions of piping and branch runs required to be examined.	The examination areas shall include circumferential welds and at least a 1-1/2t length of each longitudinal weld intersecting a circumferential weld. The selection of the circumferential welds to be examined will be determined by one of the following: (1) those locations corresponding to design basis pipe breaks, as may be calculated by the application of design criteria for protection against postulated piping failures, or (2) the terminal ends of piping or branch runs and other locations of structural discontinuities. The examination of welds in each piping system will be limited to those welds in one run or distributed among pipe runs (or portions of runs) that are essentially similar in design, size, system function, and service conditions. The welds initially selected for examination will be re-examined over the service lifetime of the piping component. See Note (a).

100% of the nonexempt circumferential and longitudinal welds will be examined during the baseline. The Inservice Programs will be in accordance with 10CFR50.55a. The requirements of categories C-F and C-G as stated in Section XI, Table IWC-2520 will be applicable.

*Refer to Section 7, Exceptions and Exemptions', for justification of surface examination of piping with wall thickness less than 1/2 inch.

TABLE 6.6-1 (Continued)

SECTION B PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C2.2 C2.1	C-F, C-G	Piping butt welds t greater than 1/2 inch	Surface and volumetric	The examinations performed during each inspection interval will cover 100% of the welds in those portions of piping and branch runs required to be examined.	The examination areas shall include circumferential welds and at least a 2-1/2t length of each longitudinal weld intersecting a circumferential weld. The selection of the circumferential welds to be examined will be determined by one of the following: (1) those locations corresponding to design basis pipe breaks, as may be calculated by the application of design criteria for protection against postulated piping failures, or (2) the terminal ends of piping or branch runs and other locations of structural discontinuities. The examination of welds in each piping system will be limited to those welds in one run or distributed among pipe runs (or portions of runs) that are essentially similar in design, size, system function and service conditions. The welds initially selected for examination will be reexamined over the service lifetime of the piping component. See Note (a).

100% of the nonexempt circumferential and longitudinal welds will be examined during the baseline. The Inservice Programs will be in accordance with 10CFR50.55a. The requirements of categories C-F and C-G as stated in Section XI, Table IWC-2520 will be applicable.

TABLE 6.6-1 (Continued)

SECTION B PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C2.3	C-F	Pipe branch connection welds	Surface *	The examination performed during each inspection interval will cover 100% of the branch connection welds in those portions of piping selected for examination under Items C2.1 and C2.2.	The examination area will include the weld surface and 1/2 inch of base material to each side of the weld. The welds initially selected for examination shall be examined over the service lifetime of the piping component. See Note (a).
~~C2.4~~ C2.5	C-E-1	Integrally-welded supports for piping ~~whose base material design thickness exceeds 3/4 inch~~	Surface	The examination performed during each inspection interval will cover 100% of the welds in the support of those components required to be examined under Examination Category C-F.	The examination area will include the weld surface and 1/2 inch of base material to each side of the weld. See Note (a). & 2 support thicknesses of support member base material.
~~C2.5~~ C2.6	C-E-2	Support components for piping	Visual	The examination performed during each inspection interval will cover all support components of components required to be examined under Examination Category C-F.	The areas will include the support components that extend from the piping to the supporting structures. support settings The ~~functional operability~~ of spring-type hangers, snubbers, and shock absorbers will be confirmed. See Note (a).

*Refer to Section 7, Exceptions and Exemptions , for justification for a surface in lieu of a volumetric examination of pipe branch connection welds.

TABLE 6.6-1 (Continued)

SECTION B PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
~~C2.6~~ C2.4	C-D	Pressure-retaining bolting greater than 2-inch diameter *	Volumetric	~~The examination performed during each inspection interval will include 100% of bolts and studs at each bolted connection of pressure-retaining components required to be inspected.~~	This examination may be performed on bolting in place under load or upon disassembly of the connection. The examination of flange bolting in a piping system required to be inspected may be limited to the flange connections in one run among pipe runs that are similar in design, function, and service as selected for examination under Examination Category C-F. See Note (a).

The requirements of category C-D of Table IWC-2520 of Section XI will be applicable to bolting greater than 2 inch in diameter.

*Refer to Section 7, "Exceptions and Exemptions", for justification for exempting bolting 2 inch in diameter and less.

TABLE 6.6-1 (Continued)

SECTION C PUMPS

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C3.1	C-G, C-F	Pump casing welds	Surface *	The examination during each inspection interval will cover 100% of the welds in all components in each piping run for which Examination Category C-F requires examination.	~~In the case of multiple pumps of similar design, size, function, system, and service, the examination of only one pump among each group of multiple pumps is required. The pumps initially selected for examination will be reexamined over the service lifetime of the component. See Note (c).~~
C3.2	C-D	Pressure-retaining bolting greater than 2-inch diameter **	Volumetric	The examination performed during each inspection interval will include ~~100% of bolts and studs at each bolted connection of pressure-retaining components required to be inspected.~~ 100% of the bolting in each joint but not less than two bolts or studs per joint.	This examination may be performed on bolting in place under load or upon disassembly of the connection. See Note (a). ~~The examination of bolting may be conducted on one pump among a group of pumps in each system required to be inspected, that are similar in design, size, function, and service. In addition, where the one component to be inspected contains a group of bolted connections of similar design and size (e.g., flange connections, manway covers), the examination may be conducted on one bolted connection among the group.~~

*Refer to Section 7, Exceptions and Exemptions , for justification of surface in lieu of volumetric examination. This section also contains justification for exempting RHR pumps.

**Refer to Section 7, Exceptions and Exemptions , for justification for exempting bolting 2 inch in diameter and less.

TABLE 6.6-1 (Continued)

SECTION C PUMPS

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C3.3	C-E-1	Integrally welded supports for pumps ~~whose support base material design thickness exceeds 3/4 inch~~	Surface	The examination performed during each inspection interval will cover 100% of the welds in the support of those components required to be examined under Examination Category C-G.	The examination area will include the weld surface and 1/2 inch of base material to each side of the weld. See Note (a). & 2 support thicknesses of support member base material.
C3.4	C-E-2	Support components for pumps	Visual	The examination performed during each inspection interval will cover all support components of components required to be examined under Examination Category C-G.	The areas will include the support components that extend from the pumps to the supporting structures. support settings The ~~functional operability~~ of spring-type hangers, snubbers, and shock absorbers will be confirmed. See Note (a).

TABLE 6.6-1 (Continued)

SECTION D VALVES

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C4.1	C-G C-F	Valve body welds	~~Surface~~ Volumetric	The examination during each inspection interval will cover 100% of the welds in all components in each piping run for which Examination Category C-F requires examination.	~~In the case of multiple valves of similar design, size, function, system, and service, the examination of only one valve among each group of multiple valves is required. The valves initially selected for examination will be reexamined over the service lifetime of the component. See Note (a).~~
C4.2	C-D	Pressure-retaining bolting greater than 2-inch diameter *	Volumetric	The examination performed during each inspection interval will include ~~100% of bolts and studs at each bolted connection of pressure-retaining components required to be inspected.~~ 10% of the bolting in each joint but not less than two bolts or studs per joint.	This examination may be performed on bolting in place under load or upon disassembly of the connection. See Note (a). ~~The examination of bolting may be conducted on one valve among a group of valves in each system required to be inspected, that are similar in design, size, function, and service. In addition, where the one component to be inspected contains a group of bolted connections of similar design and size (e.g., flange connections, manway covers), the examination may be conducted on one bolted connection among the group.~~

*Refer to Section 7, EXCEPTIONS AND EXEMPTIONS, for justification for exempting bolting 2" in diameter and less.

~~6.6-14~~

TABLE 6.6-1 (Continued)

SECTION D VALVES

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C4.3	C-E-1	Integrally welded supports for valves ~~whose support base material design thickness exceeds 3/4 inch.~~	Surface	The examination performed during each inspection interval will cover 100% of the welds in the support of those components required to be examined under Examination Category C-G.	The examination shall include the weld surface and 1/2 inch of base material to each side of the weld. See Note (a). & 2 support thicknesses of support member base material.
C4.4	C-E-2	Support components for valves	Visual	The examination performed during each inspection interval will cover all support components of components required to be examined under Examination Category C-G.	The areas will include the support components that extend from the valves to the supporting structures. The ~~functional operability~~ support settings of spring-type hangers, snubbers, and shock absorbers will be confirmed. See Note (a).

Note (a) At least part of the overall total of required examinations will be performed by the expiration of 1/3, 2/3, and the end of the 10-year interval.

(b) RHR heat exchangers will be examined to the extent practical. The heat exchanger welds were not designed to be ultrasonically examined.

(c) RHR pumps are not designed for access to permit surface examinations. The design of these pumps preceded Class 2 examination requirements and a voluntary upgrade by design to meet the latest Code was impractical.

5.2 NRC REGULATORY GUIDES

The Supply System has reviewed the augmented inservice inspection requirements found in the NRC Regulatory Guides listed below. Following careful review and consideration of those augmented requirements, the WNP-2 Preservice Inspection Program Plan has been found to not be subject to the augmented (i.e., above and beyond the ISI requirements of ASME Section XI) inspection requirements of those Regulatory Guides (with the possible exception of Turbine Disk Integrity Verification, Reg. Guide 1.70). This is generally due to the implementation criteria of the Guides, or the nature of the plant design which does not incorporate the design configuration addressed in the Guide. A brief statement of the reasons for nonapplicability is given for each Guide.

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NRC REGULATORY GUIDE REVIEW FOR APPLICABILITY TO WNP-2 PSI PROGRAM PLAN

Reg. Guide No.	Title	Applicability to WNP-2 PSI Program Plan
1.14, Rev. 1	Reactor Coolant Pump	Not applicable; WNP-2 is a BWR plant which does not utilize reactor coolant pumps.
1.26, Rev. 3	Quality Group Classifications & Standard for Water, Steam, & Radioactive Waste Containing Components in Nuclear Power Plants	Applicable; used to establish WNP-2 ISI boundaries but does not include augmented ISI requirements.
1.33 (Safety Guide 33)	Quality Assurance Program Requirements (Operation)	Applicable; does not include augmented ISI requirements; WPPSS Operational QA Program addresses compliance.
1.35, Rev. 2	Inservice Inspection of Ungrouted Tendons in Prestressed Concrete Containment Structures	Not applicable; WNP-2 does not have a prestresses concrete containment structure.
1.58	Qualification of Nuclear Power Plant Inspection, Examination, & Testing Personnel	Applicable; does not include augmented ISI requirements; WPPSS Operational QA Program addresses compliance.
1.65	Materials & Inspections for Reactor Pressure Vessel Closure Studs	Applicable; WNP-2 PSI Program complies through incorporation of ASME Section XI examination requirements.
1.66	NDE of Tubular Products	Not applicable; withdrawn 9/28/77.
1.70, Rev. 2	Standard Format & Content for SAR's	The Supply System voluntarily used the subject format. 6.6.8--Augmented Inservice Inspection to Protect Against Postulated Piping Failures This is not applicable to WNP-2 as there are no Class 2 or 3 piping greater than 1" penetrating containment and classified as high energy during normal operation.

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Reg. Guide No.	Title	Applicability to WNP-2 PSI Program Plan
		10.2.3--Turbine Disk Integrity Inspections will be performed in accordance with the following Westinghouse documents: "Report Covering the Effects of a High Pressure Turbine Rotor Fracture and Low Pressure Disk Fracture at Design Overspeed" (296/281 A, April 1975). "Report Covering the Effects of a Turbine Accelerating to Distructive Overspeed" (296/281 B, April 1975).
1.83, Rev. 1	ISI of PWR Steam Generator Tubes	Not applicable; WNP-2 is a BWR without steam generators.
1.90	ISI of Prestressed Concrete Containment Vessels With Ungrouted Tendons	Not applicable; WNP-2 does not have a prestressed concrete containment.
1.96	Design of Main Steam Isolation Valve Leakage Control Systems	Applicable; does not include augmented ISI requirements beyond that required by ASME Section XI.
1.137	Fuel Oil Systems for Standby Diesel Generators	Not applicable; Regulatory Position C.1 will not be used as a basis for evaluation of WNP-2 since the construction permit preceeds the 9/1/78 cutoff date. (See copy of Reg. Guide 1.137 transmittal on following pages for clarification).

The cracking of the feedwater nozzles is a two-part process. The crack initiation mechanism as discussed above is the result of self-initiated thermal cycling. If this were the only mechanism present, the cracks would initiate, grow to a depth of approximately 0.25 inch, and arrest. This degree of cracking could be tolerated, but unfortunately there is another mechanism which supports crack growth. This mechanism is the system induced transients, primarily the startup/shutdown transients. The welded thermal sleeve arrangement also assists in this area because without leakage, the heat transfer coefficient between the feedwater and the nozzle are reduced to the point where the thermal stresses in the nozzle are not high enough to cause a significant crack growth. Analyses presented in NEDE-21821, Section 4.7, demonstrates the benefits of the welded thermal sleeve and of using unclad nozzles. With these demonstrated benefits, WNP-2 does not believe it necessary to install instrumentation for design verification.

WNP-2 has installed an automatic feedwater low flow control valve, RFW-FCV-10. This valve has the capability to control flow down to 362 gpm, or about 1.25% of total flow. This valve will substantially reduce the temperature differential between the feedwater and the water in the RPV during low power operation.

The following paragraphs address RPV feedwater nozzle examination questions other than Appendix A to Section 121.

Feasibility of Installing Mechanized Ultrasonic Scanners

All feedwater nozzle inner radii, safe-end, and bore regions are capable of automated ultrasonic examination. Both preservice and inservice inspections of the inner radii and safe end welds will be performed using such equipment. Tooling has been contracted from the baseline examination agency that will allow nozzle inner radius scanning by contacting an angle beam transducer to the vessel plate surface adjacent to the nozzle to vessel weld. The scanner mechanism is removable and would be compatible with any of the six (6) feedwater nozzles. The Supply System is currently evaluating the benefit of performing an automated examination of the bore region versus a manual examination, in terms of radiation exposure (examination/setup time) and examination coverage. The technique providing the best balance of those two factors will be chosen. Adequate access exists for either technique.

Scanning of the nozzle bore region can be accomplished from the cylindrical section of the nozzle forging. A manual examination of this region is possible to accomplish in less than ten minutes of scanning time per nozzle by one operator supported inside the biological shield cut-out. Data recording, should it be necessary, can be accomplished by a second examiner positioned outside the shield using redundant electronic instrumentation and analog recorders. Assuming ten minutes examination time per nozzle and a radiation field of 150 mr/hr, the examiner would receive 25 mr per nozzle.

The automated examination devices would be mounted on temporary tracks, would be installed just prior to the examination and removed following the examination. It is not considered feasible to leave the equipment installed during plant operation as installation and removal time is minimal and would be quickly offset by equipment recalibration and maintenance costs considering the adverse environment such equipment would be subjected to during plant operation.

Feasibility of Magnetic Particle Examination

Handheld magnetic yokes will not readily fit in the envelope between the sparger body and the nozzle radius, and yet make good contact with the low alloy steel surface. Poor contact could result in arc-strikes below the electrodes, these surface defects are localized heat affected zones of higher hardness than the surrounding metal. If the arc-strike was accompanied by localized cracking, then surface grinding would be necessary to restore the nozzle to its original surface condition. Considering the above, magnetic particle examination methods are not considered feasible inside the reactor vessel with the present sparger configuration.

Ultrasonic Examination Methods

The nozzle inner radius examination will be made by pulse-echo ultrasonic techniques from the exterior of the reactor pressure vessel by contacting the vessel plate surface. This technique is similar to that used by the General Electric Company and the firm of Lambert MacGill and Thomas. Procedures for the examination will be in a format consistent with others used by the Supply System, but the technical content will be comparable to procedures previously qualified by the above referenced testing organizations.

B.2 As stated in B.1 above, the Supply System will perform a surface (penetrant) examination of accessible inner surfaces on all RFW nozzles during the preservice examination program. Subsequent surface examinations of those surfaces will be performed only to verify the nature of an indication discovered using the ultrasonic technique when the ultrasonic indication provides evidence of previously unidentified service induced cracks.

B.3 See response to B.2 above.

If after the sixth planned refueling outage following commercial operation no indications resulting from service induced cracks are found, the subsequent inservice examinations will be performed in accordance with the normal ASME Section XI requirements. Any indications resulting from service induce cracks which are subsequently found will result in the corrective action described above.

C. Thermal Sleeve to Safe End Joint

As stated in B.1 above, the Supply System will perform an inspection of the thermal-sleeve-to-safe-end weld joint, such as a leak test, only if service induced cracks or some other anomoly is discovered which would bring the integrity of the joint into question. In that case, the feedwater piping will be filled with water and the area of the thermal-sleeve-to-safe-end joint will be inspected for indications of leakage.

II. ACCEPTANCE CRITERIA

A. The Supply System will comply with this criteria as stated in B.1 above.

B. The Supply System will comply with this criteria as stated in B.1 above.

C. The Supply System will comply with option (b), in that both the examination personnel and the procedures to be used on the nozzles will be qualified on a full size nozzle mock-up. Supply System examiners will be trained by individual NDE specialists having previous experience with the General Electric Company procedures and their nozzle test program. These examiners will undergo further training, practice, and qualifications on a full size

nozzle mock-up. The mock-up will be unclad if negotiations can be reached with a utility owning such a mock-up. As an alternative, the examiners will qualify on a clad mock-up owned by the General Electric Company. Following the qualification process, the examinations will be conducted under the direct supervision of the experienced NDE specialists responsible for ultrasonic technique and procedure development for the Supply System.

III. RECORDING AND REPORTING STANDARDS

The Supply System will record crack indications and report inspection results in compliance with the requirements stated in NUREG-0312.

121.8 JUSTIFICATION OF DEVIATION FROM APPENDIX A

I.B.1 Ultrasonic Examinations Frequency

The Supply System will examine only one RFW nozzle per refueling outage rather than all nozzles using an ultrasonic technique from the outside of the vessel. This is justified for the following reasons, which reflects a significant advance in the WNP-2 design and operating procedures towards the long term solution of the BWR nozzle cracking problems per NUREG-0312, Section 8.0, Part. 1.

a. Improved Design: The WNP-2 RFW welded thermal-sleeve-to-safe-end joint provides a "zero leakage" design. This design essentially eliminates the primary historical initiating source of nozzle cracking in BWRs.

b. No Nozzle Cladding: The WNP-2 RFW nozzle surfaces are not clad. The likelihood of crack initiation in unclad nozzles is more than a factor of a 5 less than for clad nozzles. All cracks in BWR feedwater nozzles have initiated in the clad metal.

c. Proven Examination Technique: The ultrasonic examination equipment and personnel to be used in performing both baseline and inservice ultrasonic examinations will be qualified on a full scale mock-up of the nozzle, simulating the nozzle geometry and anticipated fatigue crack defects. Since the WNP-2 reactor feedwater nozzles are unclad as stated in b) above, a more sensitive examination is possible due to lack of clad/basemetal interface.

6.0--PROGRAM DESCRIPTION

6.1 PROGRAM PHILOSOPHY

The overall intent of the Supply System in preparing the WNP-2 Preservice Inspection (PSI) Program Plan is to develop a program which reflects a good balance of the following objectives and constraints:

a. To the maximum extent practical comply with the latest approved codes and regulations governing inservice inspection of nuclear power plant components.

b. Minimize the cost and schedule impact of the required examination activities during plant construction and startup.

c. Provide a smooth transition of the PSI Program into the Inservice (ISI) phase of plant life. In this regard, consider the latest ASME Section XI code editions and addenda in order to assess the changes in examination coverage and examination techniques, and then incorporate, wherever practical, these code changes into the PSI Program Plan provided the overall program effectiveness is not compromised. For any instance of a change of examination coverage or technique, detailed justification is provided. Such changes are held to a minimum and are applied only when there is significant benefit, such as eliminating the taking of baseline data which will never be used inservice, or substituting an examination technique which is superior in effectiveness relative to the code required technique for the particular application, and in many cases, is the same change made in later code addenda. In some cases, a voluntary increase in examinations is incorporated to ensure baseline data will be available when the program is updated inservice to a later code which will require increased examination coverage.

d. Concurrent with c above, monitor the NRC concerns regarding the evolution of unapproved editions and addenda of ASME Section XI to ensure that the PSI Program Plan incorporates those concerns.

The Supply System believes that the WNP-2 Preservice Inspection Program Plan reflects the above philosophy and as such will result in a program of inspections which is in the best interests of the health and safety of the general public.

6.2 PROGRAM SCOPE

This Program Plan governs all manual and automated non-destructive examinations, visual examinations, evaluations, and reporting activities required by ASME Section XI as invoked by 10CFR50.55a, and applicable augmented examination requirements from NRC regulatory guides. Pump and valve testing required by Subarticles IWP and IWV of ASME Section XI are the subject of a separate document and are not included herein.

6.3 RPV EXAMINATION

Manual preservice ultrasonic examinations were completed on essentially 100% of the WNP-2 Reactor Pressure Vessel (RPV) circumferential, longitudinal, nozzle-to-vessel, and vessel support welds, and nozzle inner radii, in February 1977. Those examinations were performed prior to the installation of the vessel while it was resting in its shipping cradle (horizontal) in storage at the plant site. Examinations were performed by Nuclear Energy Services (NES) to a program plan prepared by NES and approved by WPPSS. The program was prepared in accordance with the 1971 edition of ASME Section XI with addenda through Winter 1971, with additional evaluations performed per the requirements of the 1974 edition of ASME Section XI with addenda through Summer 1975. The top and bottom heads were not examined at that time, nor were the nozzle safe end welds.

The RPV will be examined primarily using mechanized techniques during inservice inspections. Therefore, a fit and function of all mechanized equipment to be used inservice will be performed during the preservice inspection. This mechanized equipment is described in Section 14.0, "EXAMINATION EQUIPMENT". The manual and mechanized examination and fit and function activities to be performed during the preservice inspection per this program plan are as follows:

a. All RPV welds, nozzles, and other areas for which baseline data required by ASME Section XI has not been established during the partial manual baseline examination will be examined using mechanized equipment or manually depending on the method to be used for the particular examination area inservice.

b. All RPV and nozzle welds and examination areas which will be examined utilizing remote mechanized examination equipment inservice will be verified examinable by performing a fit-and-function of such remote examination equipment.

c. Examination areas containing a) complex surface intersections or geometries, such as nozzle-to-vessel welds, or b) previously recorded indications, and c) the major vessel repair area in the beltline region, will be examined utilizing remote equipment. Where possible, data obtained during these mechanical examinations will be compared with the manually obtained data described above to correlate the two sets of data to a) verify the amplitude, location, shape, size and orientation of the previously recorded indications, and 2) identify any additional indication that may be recorded utilizing the mechanized equipment, that are in addition to those found with the manual method for these areas.

6.4 PROGRAM SUMMARY

Following is a listing of the Program Plan Sections with brief summaries of the purpose and content of certain sections. This summary is intended to orient the reader with the organization of the program plan. Details regarding the use of a given section are found in the introduction to that section.

1.0 INTRODUCTION

2.0 TABLE OF CONTENTS

3.0 RECORD OF REVISIONS

Identifies latest revision of each page of the program.

4.0 CODE COMMITMENTS

Identifies applicable code commitments and owner augmented requirements.

5.0 FSAR/NRC COMMITMENTS

Identifies FSAR commitments and applicable augmented NRC inspection requirements.

6.0 PROGRAM DESCRIPTION

7.0 BOUNDARY DIAGRAMS

Illustrates on system P&ID type drawings the boundaries of in-service inspection and the types of examinations performed on each portion of each system. Also found in this section is a detailed account of each exemption (based on code allowed exemption criteria) and exception (alternative to a code requirement) reflected by each system boundary diagram.

8.0 WELD ID DIAGRAMS

Illustrate on piping isometric type drawings each pipe spool and associated welds and components which require examination per the ISI Boundary Diagrams in Section 7.0. Each weld and component requiring volumetric or surface examination is assigned a unique ISI identification number which is used exclusively in referring to that weld on all examination drawings, tables, data records, and reports.

Date 11/14/80
Revision 2

WNP-2 PRESERVICE INSPECTION SCHEDULE

Commercial Operations	12/83
Fuel Load	8/83
RPV Hydro	6/82
Begin Manual Exams	3/79
Begin Mechanized Exams	1/81
Complete Preservice Inspection	6/81
File Final Report	9/81

place (these meet NRC rod ejection criteria) and assuming that the stub tube to CRD housing weld experiences a 360° break, there would result an effective leak area of 0.189 sq. in. The CRD housing supports would prevent ejection of the housing.

Assuming saturated conditions at 1,000 psi in the RPV at the time of the break, and assuming no friction losses, the maximum flow rate of reactor water out of the break described above would be 8,000 lbm/sec $ft^{2(1)}$.

Leakage = 8,000 lbm/sec ft^2 X 0.189 in^2 X

$$\frac{ft^2}{144\ in^2} \times 0.021\ \frac{ft^3}{lbm} \times 7.48\ \frac{gal}{ft^3} \times 60\ min/sec = 99\ gpm$$

This is clearly within the makeup requirements of the normal reactor makeup systems (see 7.2.2.a.1).

3) Subarticle IWB-2600, Table IWB-2600, examination category B-G-1, Pressure Retaining Bolting 2" and Larger in Diameter:

Code Requirement - Examine pressure retaining bolting 2" and larger in diameter using visual and surface and/or volumetric methods.

Exception/Alternative Examination - Pressure retaining bolting exceeding 2" diameter will be examined using a volumetric method when examined in place, and using volumetric, surface and visual methods when examined after removal. Pressure retaining bolting less than or equal to 2" nominal diameter will be examined using a visual method.

Justification - This is consistent with the ASME Section XI examination requirements for Class 1 bolting which were adopted subsequent to issuance of the Summer 1975 addenda, with the applicable ASME Section III examination criteria and with the anticipated Section XI criteria to which the WNP-2 inservice examinations will be conducted.

4) Subarticle IWV-1220(c), Visual Examination of Exempted Components:

Clarification - Components exempted from examination in accordance with IWB-1220(a) and (b) will be examined subject to the requirements of category B-P of Table IWB-2500 with the following clarification. Instrument lines which penetrate primary containment will be examined for evidence of leakage through the containment penetrations, though the excess flow check valves up to the point at which there is a transition to instrument tubing. Instrument tubing is not subject to ASME Section XI.

5) Subarticle IWB-2600, Table IWB-2600, examination item B 1.8, Closure Studs and Nuts, When Removed:

Code Requirement - Examine 100% of the RPV closure nuts by a volumetric and surface method.

Exception/Alternative Examination - RPV closure nuts will be examined using a surface method only.

Justification - As stated in the Program Philosophy (Section 6.1), the Supply System is developing a program which takes into consideration examination requirements found in the latest codes and which will provide a smooth transition from the preservice inspection phase to the inservice inspection phase. The latest NRC approved Section XI Code (Summer 1978) requires only a surface examination for the RPV closure nuts. The Supply System will be using the latest approved code for the inservice inspection program. (This will be a Summer 1978 or later code.) Therefore collecting baseline data would serve no useful purpose because it would not be compared to data taken in future examinations.

These nuts have received all of the Section III required non-destructive examinations and are acceptable for service.

Date 11/14/80
Revision 0

b. ASME Section III, Class 2 Systems

1) Subarticle IWC-2600, Table IWC-2600, examination item C2.3, Piping Branch Connection Welds:

Code Requirement - Examine branch pipe connection welds in nonexempt systems using a volumetric method.

Exception/Alternative Examination - Pipe branch connection welds in nonexempt systems will be examined using a surface method.

Justification - It is impractical to perform meaningful ultrasonic examinations of those welds due to their geometry. This difficulty was recognized by the ASME in the Summer 1976 addenda to ASME Section XI, in which the substitution of surface in lieu of volumetric methods for those items was adopted. The use of radiographs was considered as an alternative to ultrasonic examination, but radiographic examinations could not be practically repeated inservice.

EXAM FABRICATION

2) Subartical IWC-2600, Table IWC-2600, examination items C2.1 and C2.2, Circumferential and Longitudinal Piping Welds:

Review Update

Code Requirement - Examine circumferential and longitudinal welds in nonexempt piping systems using a volumetric method.

Exception/Alternative Examination - Circumferential and longitudinal welds in nonexempt piping systems with piping wall thickness exceeding 1/2" nominal will be examined using a volumetric method in accordance with the reference code. In addition, all nonexempt piping welds will be examined using a surface method regardless of wall thickness. Welds in nonexempt piping systems with wall thicknesses of 1/2" nominal or less will not be examined using a volumetric method.

Justification - This exception applies primarily to the RHR shutdown cooling system piping, Class 2 portion. The Supply System considers a surface examination of thin wall pipe to be superior to a volumetric method for detecting flaws in thin wall pipe inservice, when consideration is given to 1) piping welds were radiographed per the requirements of ASME Section III, thus ensuring their initial integrity; 2) radiographic examination inservice is impractical in most situations; 3) ultrasonic examinations of thin wall pipe are not clearly superior to surface methods for detecting anticipated flaw types; and 4) surface methods require less examiner manhours in anticipated radiation environments inservice. It is further noted that the ASME revised the inspection requirements for thin walled (1/2" or less) Class 2 pipe in the Summer 1976 and subsequent addenda to Section XI in the same manner proposed above. Also note that the preceeding reflects a voluntary upgrade of examinations of piping systems with wall thickness greater than 1/2" nominal to include a surface in addition to a volumetric method. This upgrade applies primarily to the high pressure main steam system, Class 2 portion, and will provide baseline surface examination data for comparison to inservice examination data when the WNP-2 ISI Program is updated to a later code inservice. Finally, note that the RHR piping is maintained in a constantly filled and pressurized condition which provides added assurance that a loss of integrity of a pipe weld or component would be quickly detected before developing into a serious problem.

3) Subarticle IWC-2600, Table IWC-2600, examination category C-D, Pressure Retaining Bolting Exceeding 1" Nominal Diameter:

Code Requirement - Examine all pressure retaining bolting exceeding 1" diameter using visual and either surface or volumetric methods.

Exception/Alternative Examination - Pressure retaining bolting exceeding 2" nominal diameter will be examined using a volumetric method when examined in place, and using volumetric and surface methods when examined after removal. All bolted connections will receive a visual examination for evidence of leakage during hydrostatic/pressure test (VT-2) regardless of bolting size.

Justification - This is consistent with the ASME Section XI examination requirements for Class 2 pressure retaining bolting which were adopted in the code addenda and edition issued subsequent to Summer 1975, and with the anticipated Section XI criteria to which the WNP-2 inservice examinations will be conducted. This is also consistent with the examination requirement for Class 1 pressure retaining bolting.

7.2.2. Exemptions

a. ASME Section III, Class 1 Systems

1) Subarticle IWB-1220

The exemptions of this subarticle were applied to each system as explained following each ISI

Boundary Diagram. The following calculation is provided to support the exemption allowed by IWB-1220(b)(1), exemption based on leakage from the component not exceeding the normal reactor makeup system capacity.

Assumptions:

1) The normal reactor makeup systems have the ability to maintain reactor coolant inventory during startup, hot standby, operation or cooldown using on-site power. For WNP-2, the following normal reactor makeup systems are available for reactor water makeup with their respective nominal capacities:

SYSTEM	CAPACITY (GPM)
RCIC Pump	600
CRD Pump	170
TOTAL	770

2) The break is assumed to result in a high dry well pressure condition within a few seconds with a resulting scram. The CRD system capacity is based on 0.92 gpm bypass flow per each of 185 drives.[3]

3) The reactor is operating at 1,000 psi under saturated conditions at the time of the postulated break.

the steam generated by reactor decay heat to the main condenser at a rate equal to the decay heat generation rate. Depressurization is by by-passing additional steam such that steam is removed from the reactor in excess of the decay heat generation rate. However, in the event of a loss of off-site power and a subsequent loss of condenser vacuum, the steam condensing heat exchangers can be used as a substitute for the main condenser using the emergency onsite power source. This condition is considered abnormal rather than normal hot standby, and abnormal rather than normal reactor shutdown and depressurization.

The piping systems and components used solely for abnormal steam condensing, which involve portions of the RHR system and the portion of the RCIC system which supplies steam to the RHR heat exchangers, are shown as exempt on their respective Boundary Diagrams based on the exemption allowed by IWC-1220(b) as interpreted above.

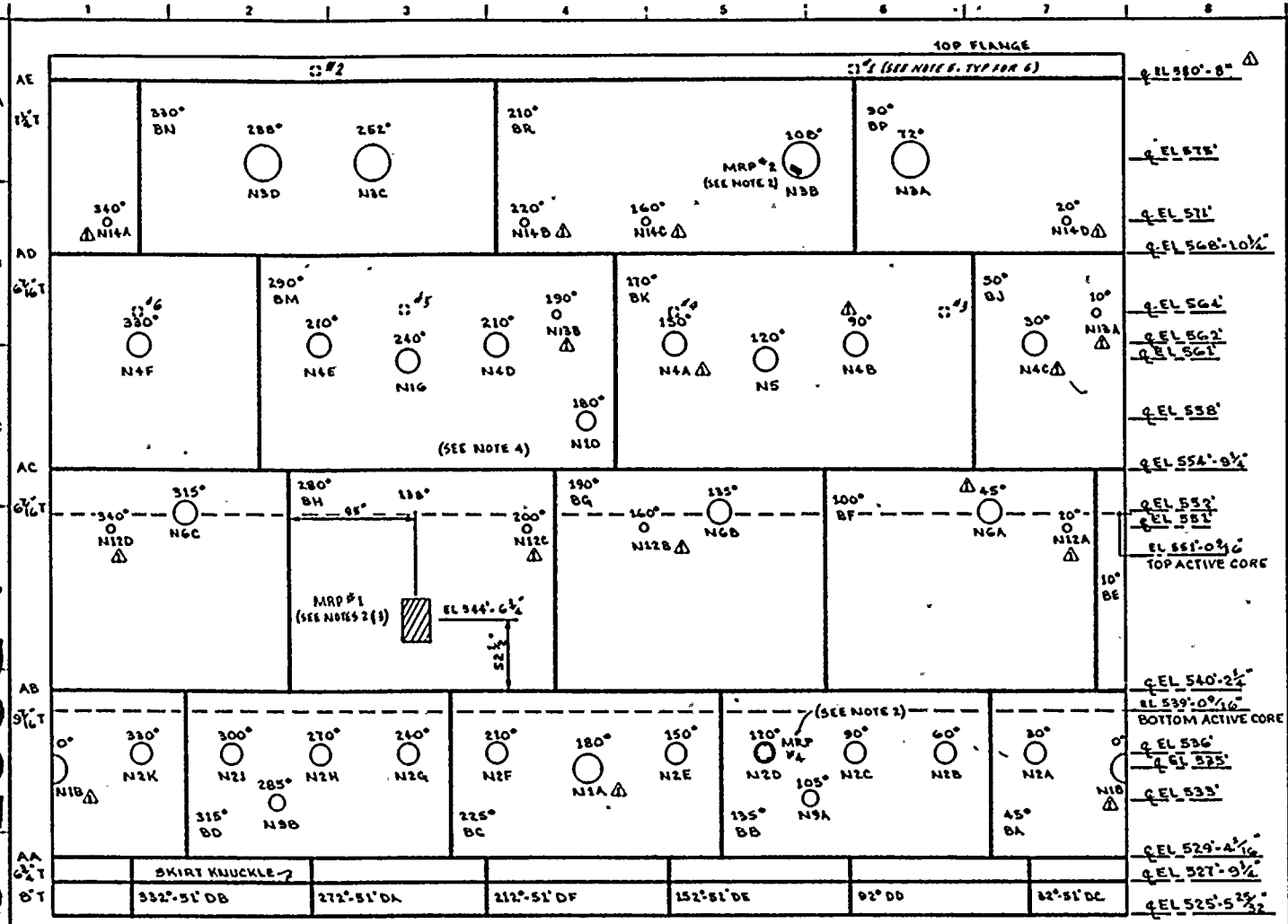
c. ASME Section III, Class 3 Systems

1) Subarticle IWD:

The exemptions of this subarticle were applied to

each system as explained following each ISI Boundary Diagram. In addition, the following generic exemptions are applied.

a) Radwaste Systems - Components were conservatively designed to the requirements of ASME Section III, Class 3 on a voluntary upgrade basis. Present Reg. Guide 1.143 criteria do not require such a classification as no postulted failure within the radwaste systems would result in a site boundary exposure in excess of 0.5 man rem(4).



NOTES:

1. REFER TO PROGRAM PLAN & SCHEDULE TABLES FOR EXAMINATION & CALIBRATION BLOCK REQUIREMENTS.
2. "MRP" INDICATES MAJOR REPAIR AREA. MRP #3 AT N2E NOZZLE TO SAFE END WELD PREP IS NOT SHOWN.
3. MRP #1 IS 2¾" TO 3⅞" IN DEPTH & IS 15" WIDE BY 30" HIGH. NOTE THAT MRP #1 AREA CENTER IS DIMENSIONALLY REFERENCED.
4. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-115.
5. CLADDING PATCH LOCATIONS: #1 @ 90° AZ, #2 @ 270° AZ ARE 21" BELOW FLANGE LIP. #3 @ 60° AZ, #4 @ 150° AZ, #5 @ 240° AZ, #6 @ 330° AZ ARE 24" ABOVE THE N4 NOZZLES.

REFERENCES:

BURNS & ROE DRAWING M886 REV 1 ⚠

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
REACTOR PRESSURE VESSEL	251	NA	1 3/16, 6 1/16, 9 3/16	SA 533 GR B	CS	NOTE 1

NO	DATE	REVISION	BY	CHKD	APPVD
2	11-5-79	ADDED ELEVATIONS - ACTIVE CORE	KMA	WTK	DJP
1	7-17-79	REVISED NOZZLE LETTERS, PER AS BUILT. ADDED NOTES 4 & 5	KMA	WTK	DJP
0	12-27-78	ISSUED FOR USE	KMA	WTK	DJP
A	5-11-78	ISSUED FOR INFORMATION ONLY	KMA	DJP	DJP

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: K HANNAH | DRAWN: K.M.A. | DATE: 2-23-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR PRESSURE VESSEL ROLL-OUT

DWG NO: RPV-101 | REV 2

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: SHL CRS & SKRT KNKL

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
AA	BTM HD-SC#1WD	B-A	VOL	UTP-40	UT-118			CAT. B-B PER S75
AB	#1-#2 SC CRC WD	B-A	VOL	UTP-40	UT-120			
AC	#2-#3 SC CRC WD	B-A	VOL	UTP-40	UT-120			CAT. B-B PER S75
AD	#3-#4 SC CRC WD	B-A	VOL	UTP-40	UT-120			CAT. B-B PER S75
AE	#4 SC-FL CRC WD	B-A	VOL	UTP-40	UT-121			CAT. B-C PER S75
CG	SKIRT KNUCKLE	B-H	VOL	UTP-27	UT-119			
BA	#1 SC VRT WD@45	B-A	VOL	UTP-40	UT-119			TOP 14" CAT. B-A; REST IS CAT. B-B PER S75
BB	#1 SC VRT W@135	B-A	VOL	UTP-40	UT-119			TOP 14" CAT. B-A; REST IS CAT. B-B PER S75
BC	#1 SC VRT W@225	B-A	VOL	UTP-40	UT-119			TOP 14" CAT. B-A; REST IS CAT B-B PER S75

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: SHELL COURSES

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
BD	#1 SC VRT Wa315	B-A	VOL	UTP-40	UT-119			TOP 14" CAT. B-A; REST IS CAT. B-B PER S75
BE	#2 SC VRT Wa 10	B-A	VOL	UTP-40	UT-120			CAT. B-B PER S75
BF	#2 SC VRT Wa100	B-A	VOL	UTP-40	UT-120			CAT. B-B PER S75
BG	#2 SC VRT Wa190	B-A	VOL	UTP-4	UT-120			CAT. B-B PER S75
BH	#2 SC VRT Wa280	B-A	VOL	UTP-40	UT-120			CAT. B-B PER S75
BJ	#3 SC VRT Wa 50	B-A	VOL	UTP-40	UT-120			CAT. B-B PER S75
BK	#3 SC VRT Wa170	B-A	VOL	UTP-40	UT-120			CAT. B-B PER S75
BM	#3 SC VRT Wa290	B-A	VOL	UTP-40	UT-120			CAT. B-B PER S75
BN	#4 SC VRT Wa330	B-A	VOL	UTP-40	UT-121			CAT. B-B PER S75
BP	#4 SC VRT Wa 90	B-A	VOL	UTP-40	UT-121			CAT. B-B PER S75
BR	#4 SC VRT Wa210	B-A	VOL	UTP-40	UT-121			CAT. B-B PER S75

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
N1-0	RRC SUC NZ-V @0	B-D	VOL	UTP-41	UT-119			
N1-0-IR	RRC NZ-IR @ 0	B-D	VOL	UTP-36	UT-			
N1-180	RRC NZ-V @ 180	B-D	VOL	UTP-41	UT-119			
N1-180-IR	RRC NZ-IR @180	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-30	RRC NZ-V @ 30	B-D	VOL	UTP-41	UT-119			
N2-30-IR	RRC NZ-IR @ 30	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-60	RRC NZ-V @ 60	B-D	VOL	UTP-41	UT-119			
N2-60-IR	RRC NZ-IR @ 60	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-90	RRC NZ-V @ 90	B-D	VOL	UTP-41	UT-119			
N2-90-IR	RRC NZ-IR @ 90	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-120	RRC NZ-V @ 120	B-D	VOL	UTP-41	UT-119			
N2-120-IR	RRC NZ-IR @ 120	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-150	RRC NZ-V @ 159	B-D	VOL	UTP-41	UT-119			
N2-150-IR	RRC NZ-IR @ 150	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-210	RRC NZ-V @ 210	B-D	VOL	UTP-41	UT-119			
N2-210-IR	RRC NZ-IR @ 210	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-240	RRC NZ-V @ 240	B-D	VOL	UTP-41	UT-119			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
N2-240-IR	RRC NZ-IR @ 240	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-270	RRC NZ-V @ @270	B-D	VOL	UTP-41	UT-119			
N2-270-IR	RRC NZ-IR@ 270	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-300	RRC NZ-V @ 300	B-D	VOL	UTP-41	UT-119			
N2-300-IR	RRC NZ-IR @300	B-D	VOL	UTP-36	UT-			INNER RADIUS
N2-330	RRC NZ-V @ 330	B-D	VOL	UTP-41	UT-119			
N2-330-IR	RRC NZ-IR @ 330	B-D	VOL	UTP-36	UT-			INNER RADIUS
N3-72	MS NZ-V @ 72	B-D	VOL	UTP-41	UT-121			
N3-72-IR	MS NZ-IR @ 72	B-D	VOL	UTP-36	UT-			INNER RADIUS
N3-108	MS NZ-V @ 108	B-D	VOL	UTP-41	UT-121			
N3-108-IR	MS NZ-IR @ 108	B-D	VOL	UTP-36	UT-			INNER RADIUS
N3-252	MS NZ-V @ 252	B-D	VOL	UTP-41	UT-121			
N3-252-IR	MS NZ-IR @ 252	B-D	VOL	UTP-36	UT-			INNER RADIUS
N3-288	MS NZ-V @ 288	B-D	VOL	UTP-41	UT-121			
N3-288-IR	MS NZ-IR @ 288	B-D	VOL	UTP-36	UT-			INNER RADIUS
N4-30	FW NZ-V @ 30	B-D	VOL	UTP-41	UT-120			
N4-30-IR	FW NZ-IR @ 30	B-D	VOL SUR	UTP-36 PTP-1	UT-122			INNER RADIUS

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
N4-30-NB	FW NZ BORE @ 30	B-D	VOL	UTP-18	UT-122			NOZZLE BORE
N4-90	FW NZ-V @ 90	B-D	VOL	UTP-41	UT-120			
N4-90-IR	FW NZ-IR @ 90	B-D	VOL SUR	UTP-36 PTP-1	UT-122			INNER RADIUS
N4-90-NB	FW NZ BORE @ 90	B-D	VOL	UTP-18	UT-122			NOZZLE BORE
N4-150	FW NZ-V @ 150	B-D	VOL	UTP-41	UT-120			
N4-150-IR	FW NZ-IR @ 150	B-D	VOL SUR	UTP-36 PTP-1	UT-122			INNER RADIUS
N4-150-NB	FW NZ BORE @150	B-D	VOL	UTP-18	UT-122			NOZZLE BORE
N4-210	FW NZ-V @ 210	B-D	VOL	UTP-41	UT-120			
N4-210-IR	FW NZ-IR @ 210	B-D	VOL SUR	UTP-36 PTP-1	UT-122			INNER RADIUS
N4-210-NB	FW NZ BORE@ 210	B-D	VOL	UTP-18	UT-122			NOZZLE INNER RADIUS
N4-270	FW NZ-V @ 270	B-D	VOL	UTP-41	UT-120			
N4-270-IR	FW NZ-IR @ 270	B-D	VOL SUR	UTP-36 PTP-1	UT-122			INNER RADIUS
N4-270-NB	FW NZ BORE@ 270	B-D	VOL	UTP-18	UT-122			INNER RADIUS
N4-330	FW NZ-V @ 330	B-D	VOL	UTP-41	UT-120			
N4-330-IR	FW NZ-IR @ 330	B-D	VOL SUR	UTP-36 PTP-1	UT-122			INNER RADIUS

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
N4-330-NB	FW NZ BORE @330	B-D	VOL	UTP-18	UT-122			INNER RADIUS
N5-120	LPCS NZ-V @ 120	B-D	VOL	UTP-41	UT-120			
N5-120-IR	LPCS NZ-IR@ 120	B-D	VOL	UTP-36	UT-			INNER RADIUS
N6-45	LPCS NZ-V @ 45	B-D	VOL	UTP-41	UT-120			
N6-45-IR	LPCS NZ-IR @ 45	B-D	VOL	UTP-36	UT-			INNER RADIUS
N6-135	LPCS NZ-V @ 135	B-D	VOL	UTP-41	UT-120			
N6-135-IR	LPCS NZ-IR @135	B-D	VOL	UTP-36	UT-			INNER RADIUS
N6-315	LPCS NZ-V @ 315	B-D	VOL	UTP-41	UT-120			
N6-315-IR	LPCS NZ-IR@ 315	B-D	VOL	UTP-36	UT-			INNER RADIUS
N9-105	JP IN-NZ-V @105	B-D	VOL	UTP-41	UT-119			
N9-105-IR	JP IN-NZ-IR@105	B-D	VOL	UTP-24	UT-			INNER RADIUS
N9-285	JP IN-NZ-V @285	B-D	VOL	UTP-41	UT-119			
N9-285-IR	JP IN-NZ-IR@285	B-D	VOL	UTP-24	UT-			INNER RADIUS
4JP(NZ)A-1	N-9 NZ-SE @ 105	B-J	VOL SUR	UTP-10 PTP-1	UT-109			SHOWN ON RPV-115
4JP(NZ)A-2	N9 SE-PN SL@105	B-J	VOL SUR	UTP-10 PTP-1	UT-29			SHOWN ON RPV-115
4JP(NZ)B-1	N9 NZ-SE @ 285	B-J	VOL SUR	UTP-10 PTP-1	UT-109			SHOWN ON RPV-115

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: NOZZLES - SHELL

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
4JP(NZ)B-2	N9 SE PN SL@285	B-J	VOL SUR	UTP-10 PTP-1	UT-29			SHOWN ON RPV-115
N10-180	CRD NZ-V @180	B-D	VOL	UTP-41	UT-120			(CAPPED)
N10-180-IR	CRD NZ-IR@180	B-D	VOL	UTP-24	UT-			INNER RADIUS
5CRD(NZ)-1	CRD NZ-SE@ 180	B-J	VOL SUR	UTP-31 PTP-1	UT-110			SHOWN ON RPV-113
3CRD(NZ)-1	CRD SE-CAP @180	B-J	SUR	PTP-1				SHOWN ON RPV-113
N16-240	HPCS NZ-V @240	B-D	VOL	UTP-41	UT-120			
N16-240-IR	HPCS NZ-IR @240	B-D	VOL	UTP-36	UT-			INNER RADIUS
N12	VESS INST PENT	B-E	VT-2	QCS&I-002				N12A @20, N12B @160 N12C @200, N12D @340
N13	VESS INST PENT	B-E	VT-2	QCS&I-002				N13A @10, N13B @190
N14	VESS INST PENT	B-E	VT-2	QCS&I-002				N14A @340, N14B @220 N14C @160, N14D @20
N17	FLG SEAL LK PEN	B-E	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: MAJOR REPAIR AREAS

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MRP-1	REPAIR AREA	B-A	VOL	UTP-30	UT-120			MAJOR REPAIR AREA 15"X30" IN #2 SHELL @ APPROX 238 DEGREES ELEVATION 545'
MRP-2	REPAIR AREA	N/A	N/A	N/A				NO EXAM REQ'D. NOT IN BELTLINE REGION; BUT WILL BE EXAM'D DURING N3-108 SHELL WELD EXAM.
MRP-3	REPAIR AREA	N/A	N/A	N/A				NO EXAM REQ'D NOT IN BELTLINE REGION. N2-150 (RRC) REPAIR ADJACENT TO NZ-SE WELD 3X3/4X11/16 ID
MRP-4	REPAIR AREA	N/A	N/A	N/A				NO EXAM REQ'D NOT IN BELTLINE REGION; BUT WILL BE EXAM'D DURING N2-120 NZ TO SHELL WELD EXAM.

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV STUD 35-1-1A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-2A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-3A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-4A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-5A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV STUD 35-1-6A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-7A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-8A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-9A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-10A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV STUD 35-1-11A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-12A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-13A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-14A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-15A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV STUD 35-1-16A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-17A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-18A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-19A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-20A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
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OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV STUD 35-1-21A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-22A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-23A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-24A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-25A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
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OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV STUD 35-1-26A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-27A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-28A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-29A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-30A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV STUD 35-1-31A								
	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-32A								
	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-33A								
	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-34A								
	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-35A								
	RPV STUD	B-G-1	VOL	UTP-32	UT-130			BUSHING INSTALLED
			SUR	PTP-1				
RPV STUD 35-1-36A								
	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

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RPV STUD 35-1-37A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-38A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-39A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-40A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-41A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
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IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV STUD 35-1-42A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-43A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-44A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-45A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-46A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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RPV STUD 35-1-47A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-48A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-49A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-50A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-51A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
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DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV STUD 35-1-52A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-53A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-54A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-55A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-56A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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RPV STUD 35-1-57A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-58A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-59A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-60A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-61A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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RPV STUD 35-1-62A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-63A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-64A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-65A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-66A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
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RPV STUD 35-1-67A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-68A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-69A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-70A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-71A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				

WNP-02
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
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RPV STUD 35-1-72A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-73A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-74A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-75A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV STUD 35-1-76A	RPV STUD	B-G-1	VOL	UTP-32	UT-130			STUD HOLE #1 IS THE 1ST CW FROM 0 DEG AZ NUMBERS CONTINUE CONSECUTIVELY IN CW DIRECTION.
			SUR	PTP-1				
RPV NUT 36-1-1A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

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DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-2A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-3A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-4A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-5A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-6A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-7A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-8A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-9A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-10A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-11A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-12A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-13A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-14A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-15A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-16A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-17A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-18A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-19A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-20A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-21A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-22A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-23A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-24A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-25A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-26A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-27A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-28A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-29A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-30A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-31A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-32A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-33A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-34A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-35A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-36A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-37A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-38A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-39A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-40A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-41A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-42A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-43A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-44A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-45A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-46A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-47A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-48A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-49A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-50A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-51A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-52A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-53A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-54A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-55A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-56A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-57A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-58A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-59A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-60A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-61A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-62A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-63A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-64A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-65A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

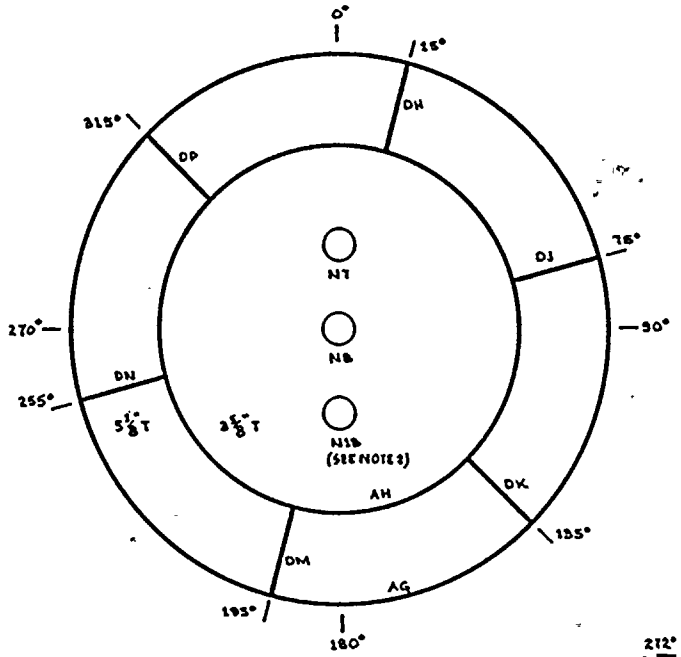
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-66A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-67A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-68A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-69A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-70A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-71A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-72A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-73A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-101

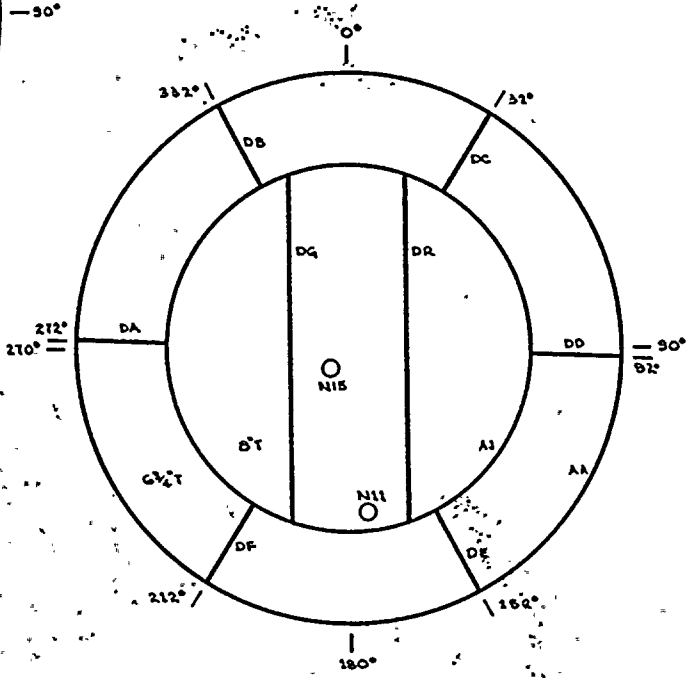
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RPV NUT 36-1-74A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-75A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV NUT 36-1-76A	RPV NUT	B-G-1	SUR	PTP-1				SURFACE EXAM REQ"D ONLY WHEN NUT IS REMOVED
RPV WASHERS	RPV WASHER-76EA	B-G-1	VT-1	QCS&I-002				
RPV BUSHING	RPV BUSHING	B-G-1	VT-1	QCS&I-002				RPV BUSHING IS LOCATED AT FLANGE HOLE #35
RPV THREADS	THREADS-RPV FLG	B-G-1	VOL	UTP-28				
RPV LIGAMENTS	RPV FLG LIGMTS	B-G-1	VOL	UTP-15				
RPV CLADDING	RPV CLAD PATCHS	B-I-1	VT-1	QCS&I-002				REFER TO RPV-101 FOR CLAD PATCH LOCATIONS
RPV INTERIOR	RPV INTERIOR	B-N-1	VT-3	QCS&I-002				
RPV COMPONENT SUPPORTS	COMP SUPPORTS	B-N-2	VT-1	QCS&I-002				INTEGRALLY WELDED COMPONENT SUPPORT STRUCTURES AND INTERIOR ATTACHMENTS TO RPV.
RPV-PB-101	RPV PRES BNDRY	B-P	VT-2	QCS&I-002				



TOP HEAD ASSEMBLY (RPV)

PLAN VIEW



BOTTOM HEAD ASSEMBLY (RPV)

INSIDE PLAN VIEW

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

1. REFER TO PROGRAM PLAN & SCHEDULE TABLES FOR EXAMINATION CALIBRATION BLOCK REQUIREMENTS.
2. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-111

REFERENCES.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
TOP HEAD	251	NA	5⅜, 5⅛	SA 508 GR B	CS	NOTE 1
BOTTOM HEAD	251	NA	6¼, 8	SA 508 GR B	CS	NOTE 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	8-30-79	ADDED NOTE 2.	KMA	[illegible]	[illegible]
0	11-29-78	ISSUED FOR USE	KMA	[illegible]	[illegible]
A	5-22-78	ISSUED FOR INFORMATION ONLY	KMA	[illegible]	[illegible]

QUALITY CLASS. | ASME CODE CLASS:

ENGR: G. AKRE | DRAWN K.M.A. | DATE: 2-28-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
REACTOR PRESSURE VESSEL
TOP & BOTTOM HEAD WELDS

DWG NO: RPV-102 | REV 1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: TOP & BOTTOM HEAD

DATE 11/13/80

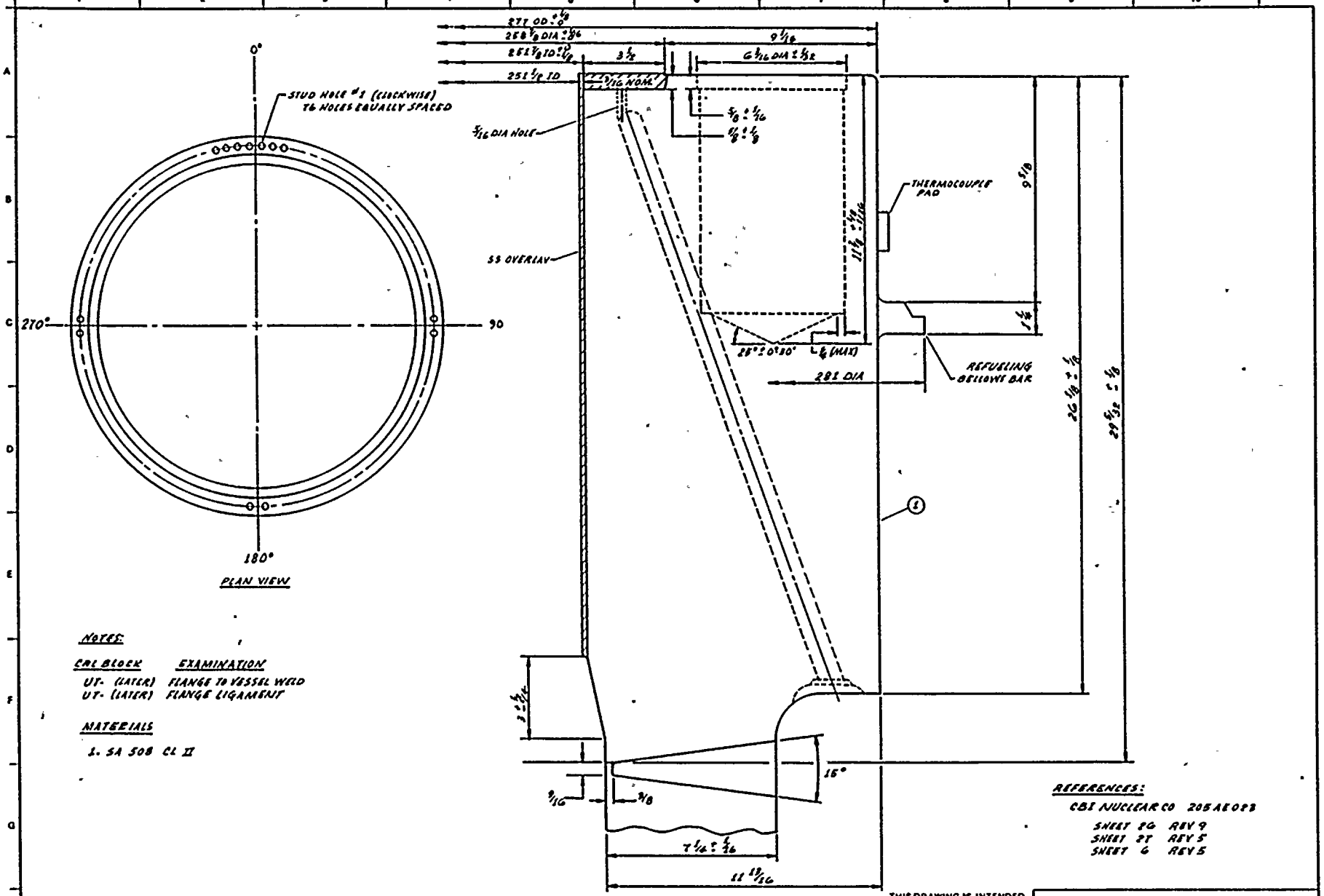
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
DA	BOT HD MRD @272	B-A	VOL	UTP-37	UT-118			
DB	BOT HD MRD @332	B-A	VOL	UTP-37	UT-118			
DC	BOT HD MRD @ 32	B-A	VOL	UTP-37	UT-118			
DD	BOT HD MRD @ 92	B-A	VOL	UTP-37	UT-118			
DE	BOT HD MRD @152	B-A	VOL	UTP-37	UT-118			
DF	BOT HD MRD @212	B-A	VOL	UTP-37	UT-118			
AJ	BOT HD DOL WELD	B-A	VOL	UTP-37	UT-117 UT-118			8"THK. TO 6 3/4 THK.
DG	BOT HD DOL /270	B-A	VOL	UTP-37	UT-117			
DR	BOT HD DOL / 90	B-A	VOL	UTP-37	UT-117			
AG	TOP HD-FLG WELD	B-A	VOL	UTP-25	UT-116			
AH	TOP HD DOL PLT	B-A	VOL	UTP-30	UT-115 UT-116			5 1/8" TO 3 5/8" THK
DH	TOP HD MRD @15	B-A	VOL	UTP-30	UT-116			
DJ	TOP HD MRD @75	B-A	VOL	UTP-30	UT-116			
DK	TOP HD MRD @135	B-A	VOL	UTP-30	UT-116			
DM	TOP HD MRD @195	B-A	VOL	UTP-30	UT-116			
DN	TOP HD MRD @255	B-A	VOL	UTP-30	UT-116			
DP	TOP HD MRD @315	B-A	VOL	UTP-30	UT-116			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RPV-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RPV
DESCRIPTION: TOP & BOT HD NOZZLES

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
N7	HD SP NZ-HD TOP	B-A	VOL	UTP-41	UT-115			
N7-IR	HD SP NZ-HD IR	B-A	VOL	UTP-24	UT-			INNER RADIUS
N8	HD VN NZ-HD TOP	B-A	VOL	UTP-41	UT-115			
N8-IR	HD VN NZ-HD IR	B-A	VOL	UTP-24	UT-			INNER RADIUS
N18	SPARE NZ-TOP HD	B-D	VOL	UTP-41	UT-115			
N18-IR	SPARE NZ-TOP IR	B-D	VOL	UTP-24	UT-			INNER RADIUS
6SPARE-1	SPARE NZ-FLANGE	B-J	VOL SUR	UTP-10 PTP-1	UT-107			SHOWN ON RPV-111
N11	SLC BOT HD PEN	B-E	VT-2	QCS&I-002				
N15	BOT HD DRAIN	B-E	VT-2	QCS&I-002				
CRD	CRD PEN (185EA)	B-E	VT-2	QCS&I-002				
INCORE	INCOR PEN(55EA)	B-E	VT-2	QCS&I-002				
RPV-PB-102	RPV PRES BNDRY	B-P	VT-2	QCS&I-002				



PLAN VIEW

NOTES:

CAL BLOCK	EXAMINATION
UT- (LATER)	FLANGE TO VESSEL WELD
UT- (LATER)	FLANGE LIGAMENT

MATERIALS

1. SA 508 CL II

REFERENCES:

CBI NUCLEAR CO 205AE023

SHEET 2G REV 9
SHEET 2T REV 5
SHEET 6 REV 5

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

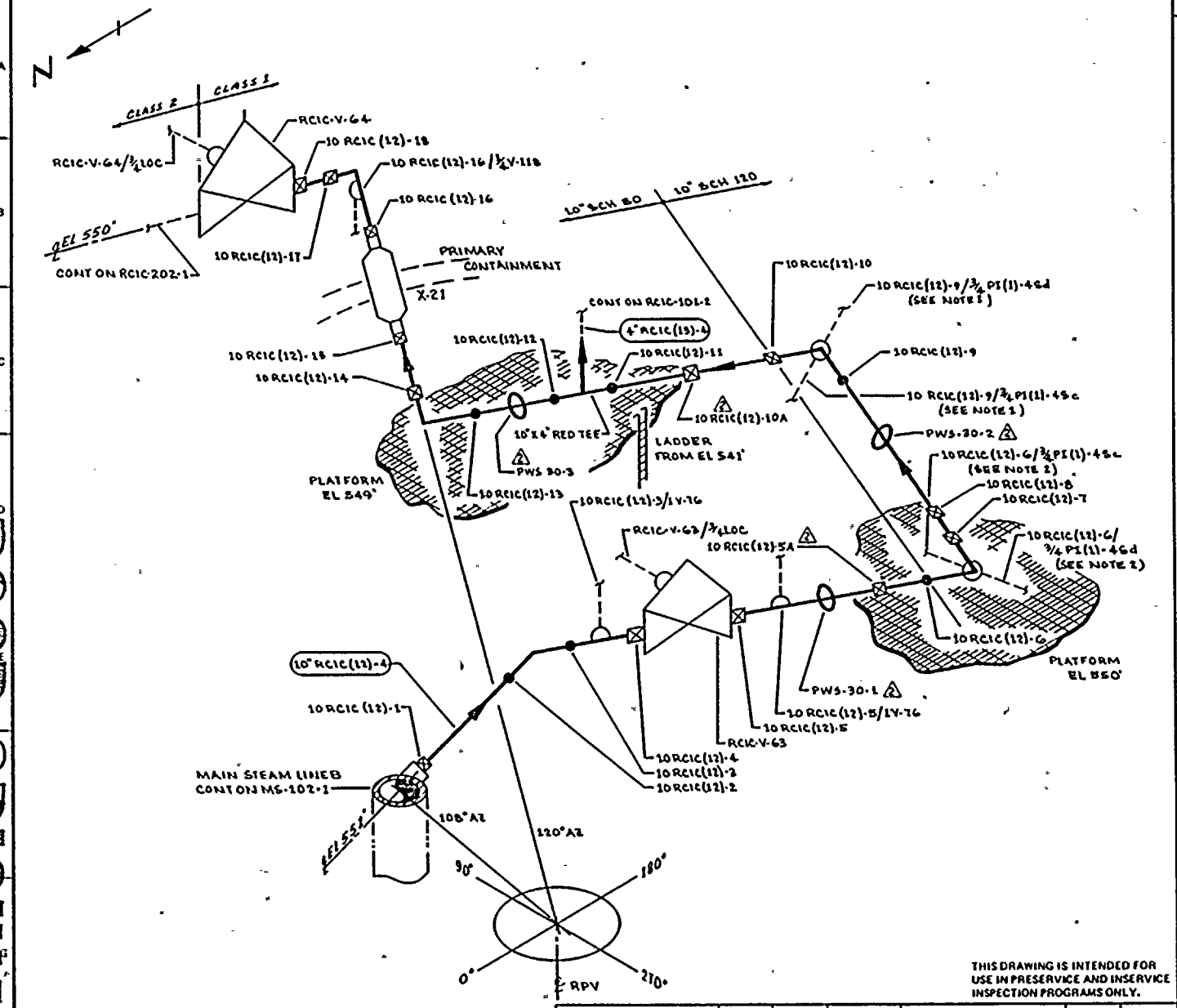
ENGINEER T HOYLE
DRAWN K. McANDREW
DATE 9-5-79

WNP- 2

RPV FLANGE DETAIL

DWG NO RPV-114 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	9.13.79	ISSUED FOR USE			



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-7L c & d) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-38 c & d) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.

REFERENCES:

BOYEE & CRAIL ISOMETRICS

RCIC-663-1.2 REV 6
RCIC-663-3.5 REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10" RCIC (12)-4	10	80	0.594	SA 106 GR B	CS	UT-22
10" RCIC (12)-4	10	120	0.844	SA 106 GR B	CS	UT-23

NO	DATE	REVISION	BY	CHKD	APPVD
2	11-5-80	REVISED AS NOTED	K.M.L	TAK	[illegible]
1	5-15-79	CHANGED 10 RCIC (12) 14 FROM SHOP TO FIELD WELD(NEW)	K.M.L	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	K.M.L	[illegible]	[illegible]
A	3-15-78	ISSUED FOR INFORMATION ONLY	K.M.L	[illegible]	[illegible]

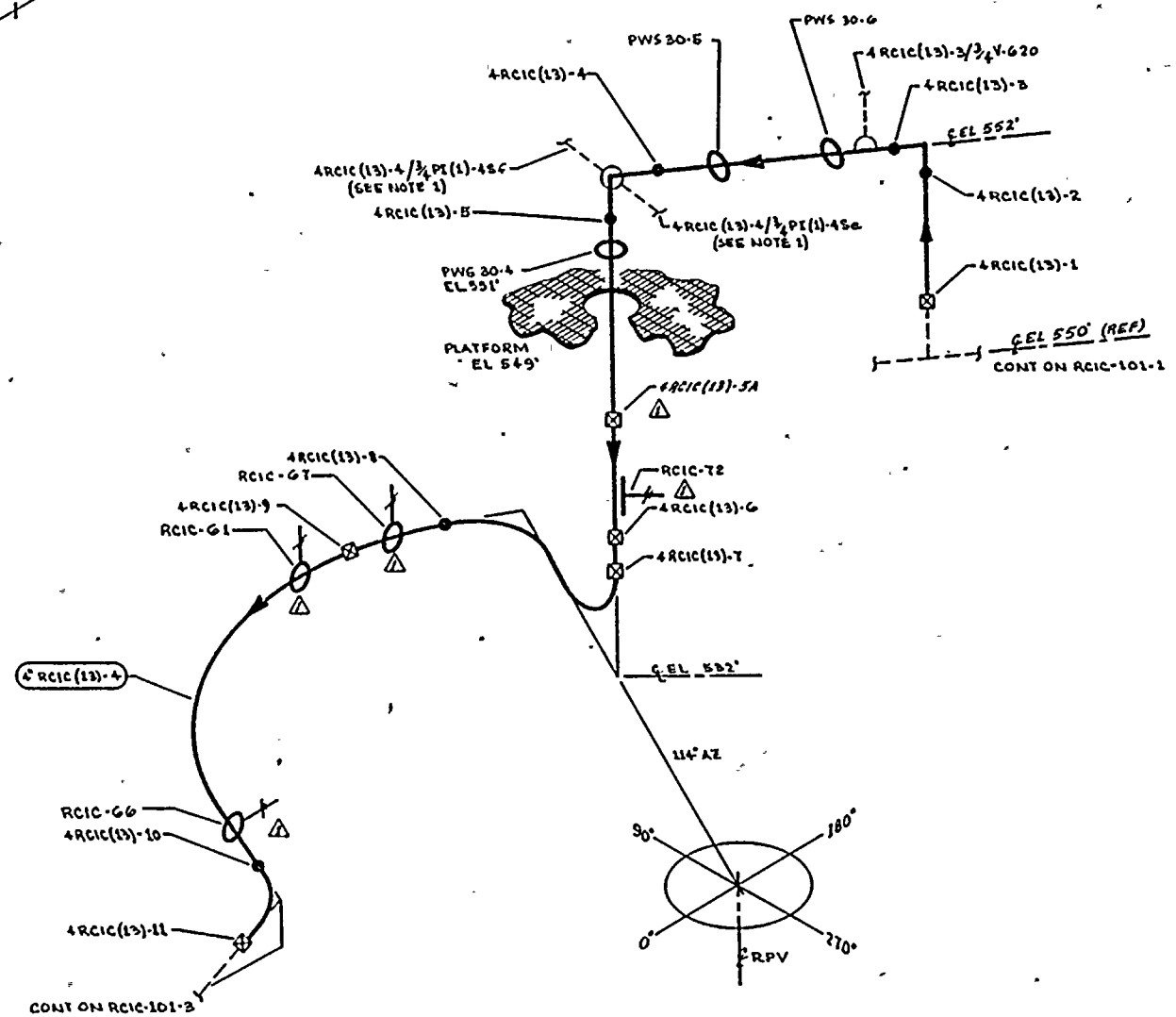
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D PORTER | DRAWN: V, M & A | DATE: 11-4-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RCIC STEAM SUPPLY

DWG NO: RCIC-101-1 | REV 2



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-71 & 6F) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-663-1.2	REV 6
RCIC-662-1	REV 6
RCIC-662-2.4	REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4" RCIC (13)-4	4	80	0.337	SA 106 GR B	CS	UT-30

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-5-80	REVISED AS NOTED	KMA	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KMA	[illegible]	[illegible]
A	8-15-78	ISSUED FOR INFORMATION ONLY	KMA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1

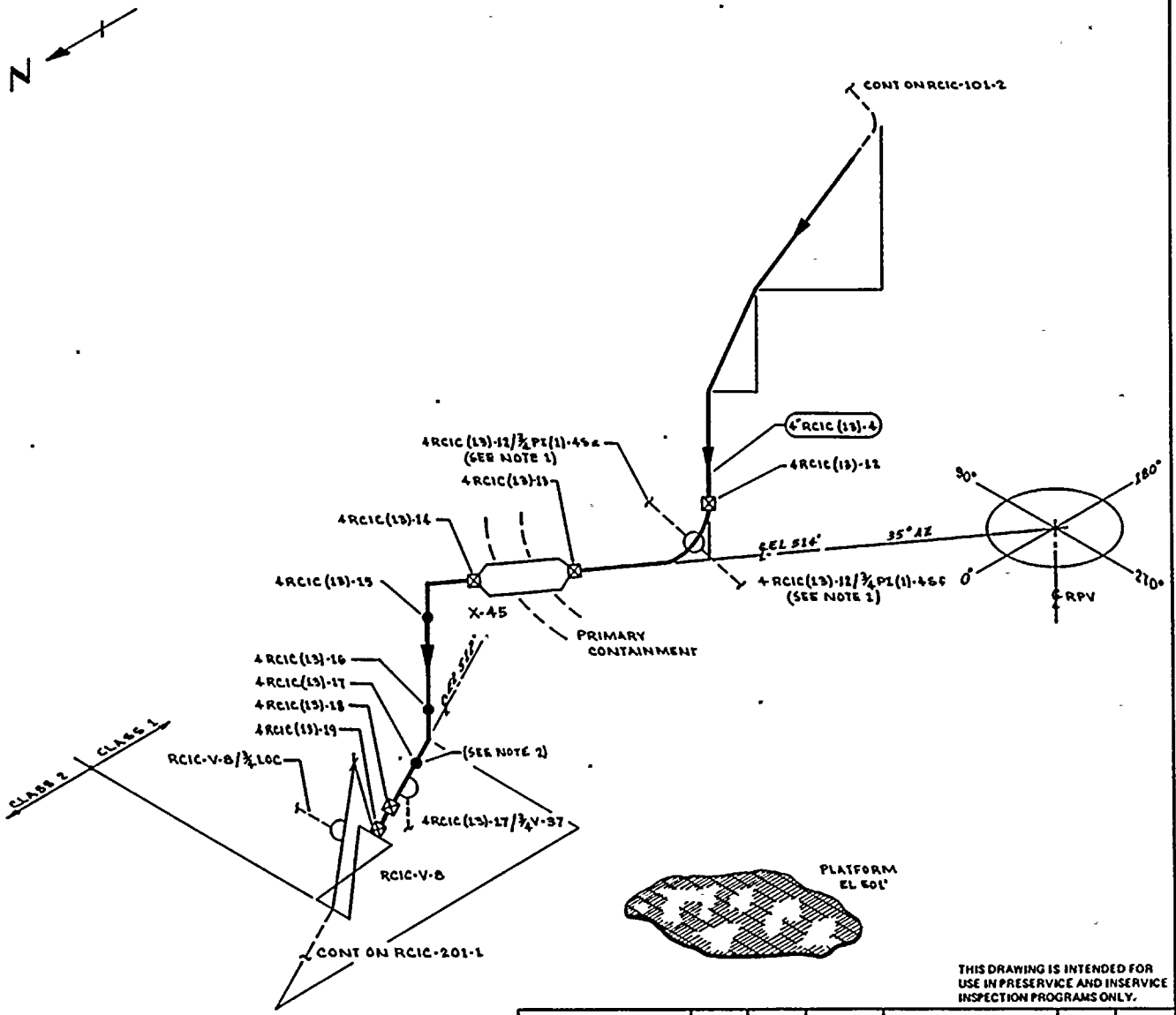
ENGR: D PORTER | DRAWN: K.M.A. | DATE: 11-7-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RCIC, STEAM SUPPLY

DWG NO: RCIC-101-2 | REV 1



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-38B & F) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. ACCESS TO WELD 4RCIC(13)-17 IS RESTRICTED ON ONE SIDE BY 4RCIC(13)-17/¾V-37.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-GG2-2.4	REV 3
RCIC-GG2-5	REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4" RCIC(13)-4	4	80	0.337	SA 106 GR B	CS	UT-30

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-77-78	ISSUED FOR USE	KMLA	DR	
A	3-15-78	ISSUED FOR INFORMATION ONLY	KMLA		

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: K.M.L.A. | DATE: 11-7-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND WASHINGTON 99352

WNP 2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RCIC STEAM SUPPLY

DWG NO: RCIC-101-3 | REV 0

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(12)-4
DESCRIPTION: RCIC STEAM SUPPLY

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
10RCIC(12)-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-3/1V-76								
	BI-PASS CONN	B-P	VT-2	QCS&I-002				
10RCIC(12)-4								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
RCIC-V-63-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RCIC-V-63BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RCIC-V-63/3/4LOC								
	STM LEAKOFF	B-P	VT-2	QCS&I-002				
10RCIC(12)-5								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-5/1V-76								
	BI-PASS CONN	B-P	VT-2	QCS&I-002				
10RCIC(12)-5PR								
	PWS	N/A	N/A	N/A				SEE NOTE #1
10RCIC(12)-5A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-6/3/4PI(1)-4C								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(12)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
10RCIC(12)-6/3/4PI(1)-4D								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
10RCIC(12)-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-23			
			SUR	PTP-1				
10RCIC(12)-7PR								
	PWS	N/A	N/A	N/A				SEE NOTE #1
10RCIC(12)-8								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-23			
			SUR	PTP-1				
10RCIC(12)-9								
	PIPE TO EL	B-J	VOL	UTP-10	UT-23			
			SUR	PTP-1				
10RCIC(12)-9/3/4PI(1)-4C								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
10RCIC(12)-9/3/4PI(1)-4D								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
10RCIC(12)-10								
	EL TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-10A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-11								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-12								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-12PR								
	PWS	N/A	N/A	N/A				SEE NOTE #1
10RCIC(12)-13								
	PIPE TO EL	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-14								
	EL TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(12)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
10RCIC(12)-15								
	PIPE TO PEN	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-16								
	PEN TO EL	B-J	VOL	UTP-10	UT-22			FITTING TO FITTING
			SUR	PTP-1				
10RCIC(12)-16/3/4V-118								
	TEST CONN	B-P	VT-2	QCS&I-002				
10RCIC(12)-17								
	EL TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				
10RCIC(12)-18								
	EL TO VALVE	B-J	VOL	UTP-10	UT-22			FITTING TO FITTING
			SUR	PTP-1				
RCIC-V-64-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RCIC-V-64-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RCIC-V-64/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
4RCIC(13)-1								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-3/3/4V-602								
	TEST CONN	B-P	VT-2	QCS&I-002				
PWS-30-6								
	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-30-5								
	PWS	N/A	N/A	N/A				SEE NOTE #1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
4RCIC(13)-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-4/3/4PI(1)-4SE								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
4RCIC(13)-4/3/4PI(1)-4SF								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
4RCIC(13)-5								
	EL TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
PWS-30-4								
	PWS	N/A	N/A	N/A				SEE NOTE #1
4RCIC(13)-5A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
RCIC-8X1(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-26	UT-30			
			SUR	PTP-1				
RCIC-8X1								
	HANGER	B-K-2	VT-3	QCS&I-002				
4RCIC(13)-6								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-7								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-8								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
RCIC-8X2								
	HANGER	B-K-2	VT-3	QCS&I-002				
4RCIC(13)-9								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
RCIC-8X3								
	HANGER	B-K-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
RCIC-8X4								
	HANGER	B-K-2	VT-3	QCS&I-002				
4RCIC(13)-10								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-11								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-12								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-12/3/4PI(1)-4E								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
4RCIC(13)-12/3/4PI(1)-4F								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
4RCIC(13)-13								
	PIPE TO PEN	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-14								
	PEN TO EL	B-J	VOL	UTP-10	UT-30			FITTING TO FITTING
			SUR	PTP-1				
4RCIC(13)-15								
	EL TO PIPE	B-J	VOL	UTP-30	UT-30			
			SUR	PTP-1				
4RCIC(13)-16								
	PIPE TO EL	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-17								
	EL TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RCIC(13)-17/3/4V-37								
	TEST CONN	B-P	VT-2	QCS&I-002				
4RCIC(13)-18								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
4RCIC(13)-19	PIPE TO VLV	B-J	VOL SUR	UTP-10 PTP-1	UT-30			
RCIC-V-8-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RCIC-V-8-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RCIC-V-8/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
RCIC-PB-101	RCIC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(10)-4
DESCRIPTION: RPV HEAD SPRAY

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
RHR-V-23-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-23-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
6RHR(10)-1								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RHR(10)-1/3/4V-62								
	TEST CONN	B-P	VT-2	QCS&I-002				
6RHR(10)-2								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-28			FITTING TO FITTING < 6"
			SUR	PTP-1				
RHR-V-19-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-19-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
6RCIC(1)-1								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-3/3/4V-114								
	TEST CONN	B-P	VT-2	QCS&I-002				
6RCIC(1)-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-5								
	EL TO EL	B-J	VOL	UTP-1	UT-28			
			SUR	PTP-1				
6RCIC(1)-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
6RCIC(1)-8								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RCIC-V-13-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RCIC-V-13-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RCIC-V-13/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
6RCIC(1)-9								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-10								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-11								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-12								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RCIC-V-65-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RCIC-V-65-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RCIC-V-65/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
6RCIC(1)-13								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-13/3/4V-82								
	TEST CONN	B-P	VT-2	QCS&I-002				
6RCIC(1)-14								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RCIC(1)-15								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-9/3/4-SP198								
	PIPE TO WOL	B-J	SUR	PTP-1				
6RCIC(1)-16								
	PIPE TO PEN	B-J	VOL	UTP-10	UT-28			PEN. X-2
			SUR	PTP-1				
6RCIC(1)-17								
	PEN TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-18								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-19								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-19A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-20								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-21								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-21A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-22								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-23								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RCIC(1)-24								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-25								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-26								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-27								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-28								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-28BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
6RCIC(1)-29								
	FLANGE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-30								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-31BU								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
6RCIC(1)-31								
	FLANGE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-32								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-33								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RCIC-127								
	SPRING HANGER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RCIC(1)-34	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-35	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-35A	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-36	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-36A	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RCIC-936N	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RCIC-935N	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RCIC-941N(W)	WELDED LUG	B-K-1	VOL	UTP-26	UT-28			
			SUR	PTP-1				
RCIC-941N	SPRING HANGER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RCIC-934N	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
6RCIC(1)-36B	PIPE TO U-TURN	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-36C	U-TURN TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

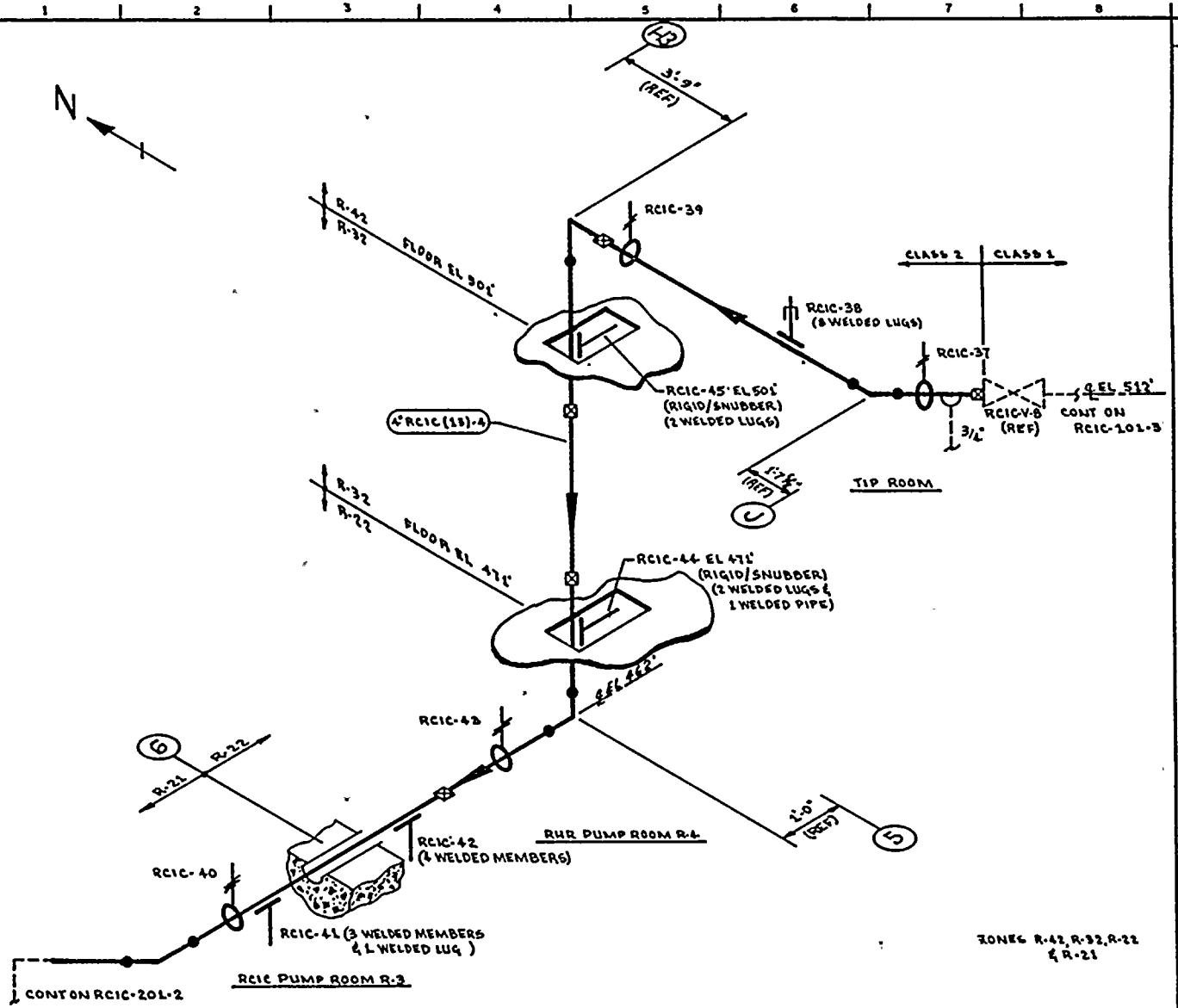
DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RCIC-933N								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RCIC-932N								
	SNUBBERS	B-K-2	VT-3	QCS&I-002				DUAL SNUBBERS
			VT-4	QCS&I-002				
6RCIC(1)-36D								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-37								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RCIC-940N(W)								
	WELDED HANGER	B-K-1	VOL	UTP-26	UT-28			
			SUR	PTP-1				
RCIC-940N								
	SPRING HANGER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RCIC-931N(W)								
	8 WELDED LUGS	B-K-1	VOL	UTP-26	UT-28			
			SUR	PTP-1				
RCIC-931N								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RCIC-128								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
6RCIC(1)-38								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-39								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-39/3/4V-605								
	VENT CONN	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RCIC-129								
	SPRING HANGER	B-K-2	VT-3	QCS&I-002				DOUBLE CONSTANT SPRING HANGER
			VT-4	QCS&I-002				
6RCIC(1)-40								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RCIC-V-66BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RCIC-V-66-BDY								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RCIC-V-66/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
6RCIC(1)-41								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-42								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-43								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-44								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RCIC(1)-44BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				12 1-1/8" DIA. BOLTS
6RCIC(1)-45								
	FLG TO NOZZLE	B-J	VOL	UTP-10	UT-107			
			SUR	PTP-1				
RCIC-PB-102								
	RCIC PRES BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-GG2-6	REV 2
RCIC-GG2-7.10	REV 0
RCIC-GG2-GH	REV 2
RCIC-BG3-7.10H	REV 1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4"RCIC(13)-4	4	80	0.337	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-28-78	ISSUED FOR USE	K.M.C.A	[illegible]	[illegible]
A	10-3-78	ISSUED FOR INFORMATION ONLY	K.M.C.A	DLK	DWR

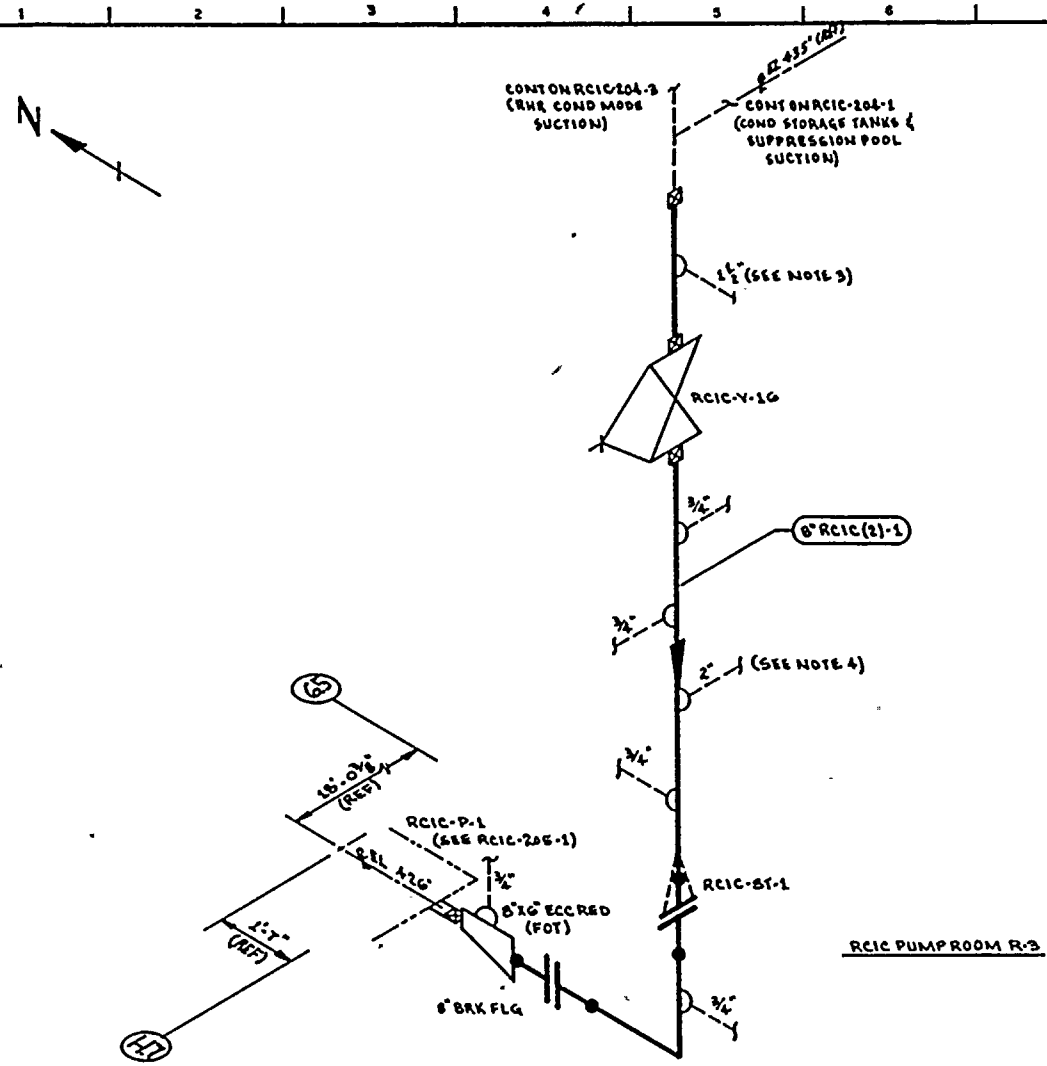
QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K. McA. DATE: 7-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RCIC STEAM SUPPLY TO RCIC-DT-1

DWG NO: RCIC-201-1 REV 0



NOTES

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE THROUGH THE OUTER-MOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING UNLESS OTHERWISE NOTED.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH VALVE RCIC-V-67 & PUMP RCIC-P-2.
4. EXTEND VISUAL LEAKAGE EXAM THROUGH VALVE RCIC-V-47, VACUUM TANK RCIC-TK-1, PUMP RCIC-P-4 & CONNECTING PIPE SHOULD BE EXAMINED FOR LEAKAGE WITH TANK WATER HEAD ONLY.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RCIC-656-5.8 REV 4
RCIC-656-5.8H REV 0

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
8" RCIC(2)-1	8	STD	0.322	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE	KAJ	[illegible]	[illegible]
1	12-3-78	ISSUED FOR INFORMATION ONLY	KAJ	GAK	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

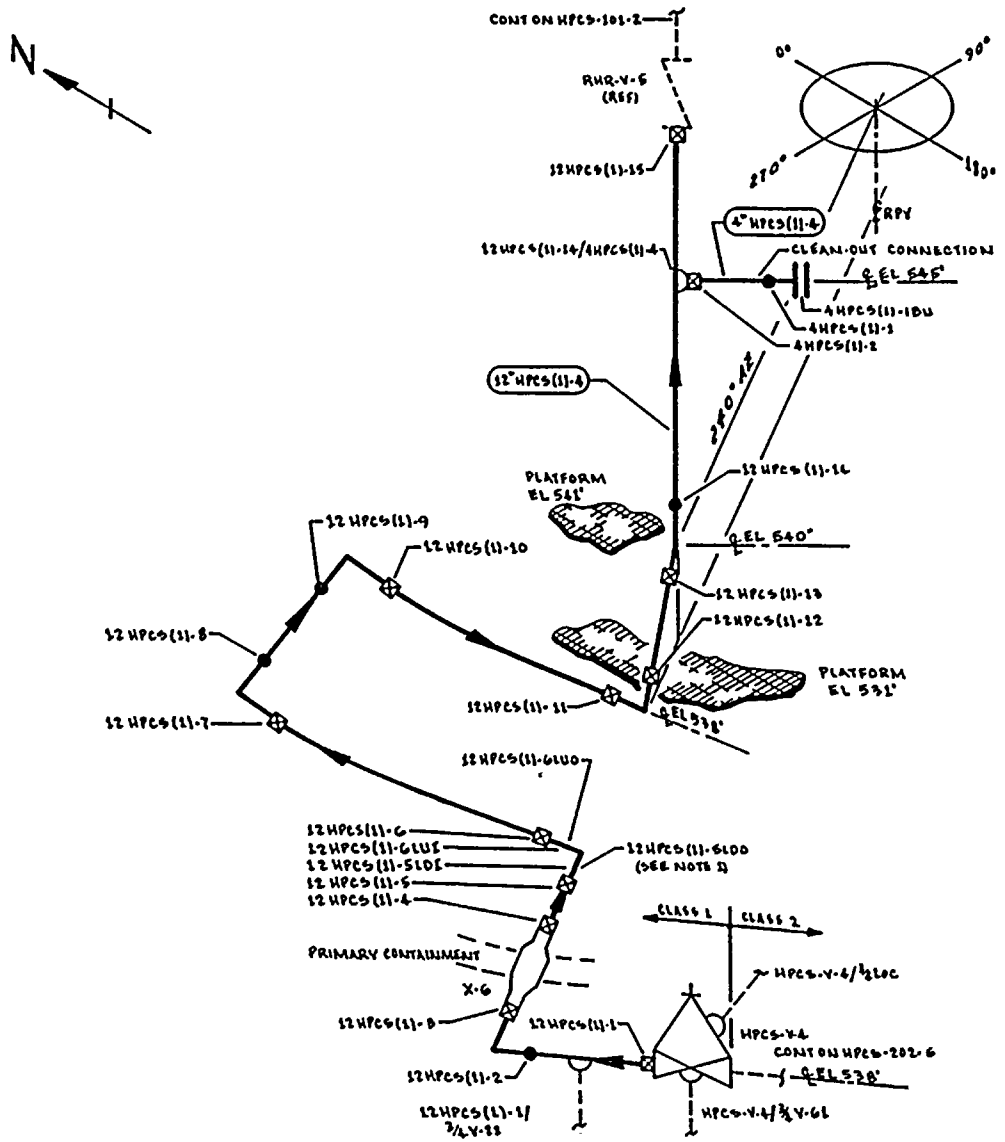
ENGR G.A. KUGLER | DRAWN: K. McA. | DATE: 7-28-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RCIC-P-1 SUCTION

DWG NO: RCIC-204-4 | REV 0



NOTES:

1. PIPING SYSTEM 12"HPCS(1)-4 IS CONSTRUCTED OF SEAMLESS SCH 80 PIPE & FITTINGS EXCEPT FOR THE 90 ELL ASSOCIATED WITH WELDS 12 HPCS(1)-5 & 6 WHICH IS WELDED SCH 100. USE THE CAL BLOCKS SHOWN BELOW ACCORDINGLY.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

HPCS-G30-26,28 REV 2
HPCS-G30-29,30 REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM (SEE NOTE 1)	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12"HPCS(1)-4	12	80	0.688	SA 106 GR B	CS	UT-17
12"HPCS(1)-4	12	100	0.844	SA 106 GR B	CS	UT-16
4" HPCS(1)-4	4	80	0.337	SA 106 GR B	CS	UT-30

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-29-78	ISSUED FOR USE (REDRAWN)	K.M.A	[illegible]	[illegible]
A	11-13-77	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1

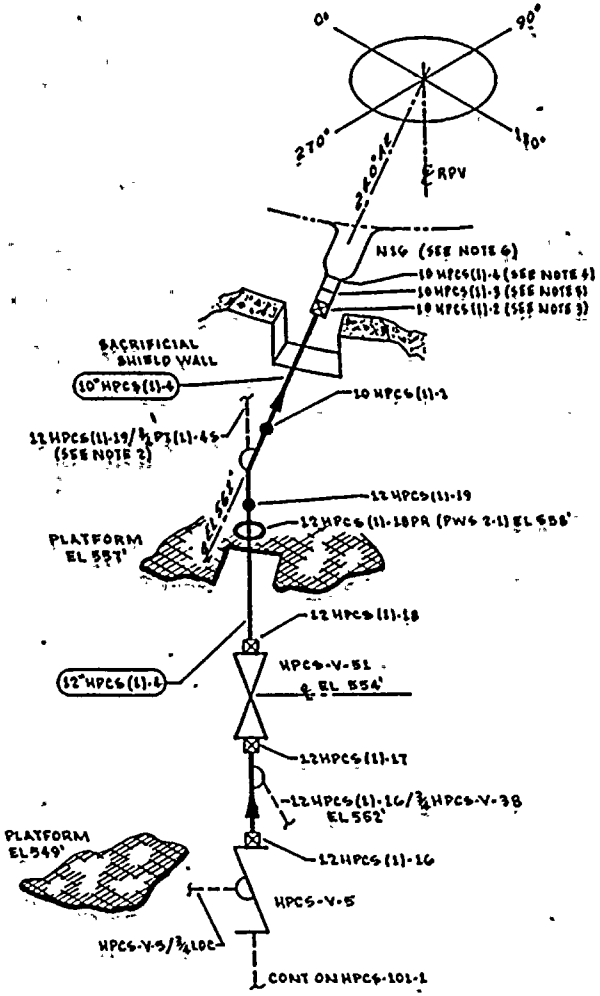
ENGR: G.A. KUGLER | DRAWN: K.M.A | DATE: 11-1-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
HPCS DISCHARGE TO VESSEL

DWG NO. HPCS-101-1 | REV 0



NOTES:

1. DELETED
2. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-73a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. DISTANCE BETWEEN WELDS 10 HPCS(1)-2 & 10" HPCS(1)-3 IS LESS THAN 6".
4. DISSIMILAR METAL WELD, CS TO INCO, USE CAL BLOCK UT-102.
5. DISSIMILAR METAL WELD, INCO TO CS, USE CAL BLOCK UT-106.
6. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-109

REFERENCES:

BOVEE & CRAIL ISOMETRICS

HPCS-G30-29.30 REV 3
HPCS-G30-31.33 REV 3

QUALITY CLASS 1	ASME CODE CLASS 1
ENGR G.A. KUGLER	DRAWN K.McA
DATE 11-2-77	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" HPCS(1)-4	12	80	0.688	SA 106 GR B	CS	UT-17
10" HPCS(1)-4	10	80	0.594	SA 106 GR B	CS	UT-22

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
HPCS DISCHARGE TO VESSEL

DWG NO: HPCS-101-2 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	4-27-79	DELETED NOTE 4 & ADDED NOTES TO WELDS IN REDUCING FLANGE AS JOINT EQUIV TO DRAWING 2-1 PW4	K.McA	[illegible]	[illegible]
1	4-10-79	REVISED REFERENCE TO NOTES 4 & 5	K.McA	[illegible]	[illegible]
0	11-17-78	ISSUED FOR USE (REDRAWN)	K.McA	[illegible]	[illegible]
A	11-28-77	ISSUED FOR INFORMATION ONLY	K.McA	[illegible]	[illegible]

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. HPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
HPCS-V-5-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
HPCS-V-5-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
HPCS-V-5/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
HPCS-V-5/3/4V-61	DRAIN CONN	B-P	VT-2	QCS&I-002				
12HPCS(1)-1	VALVE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12HPCS(1)-1/3/4V-22	TEST CONN	B-P	VT-2	QCS&I-002				
12HPCS(1)-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12HPCS(1)-3	EL TO PEN	B-J	VOL SUR	UTP-10 PTP-1	UT-17			FITTING TO FITTING
12HPCS(1)-4	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12HPCS(1)-5	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12HPCS(1)-5LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12HPCS(1)-5LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12HPCS(1)-6LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12HPCS(1)-6LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-16			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. HPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
12HPCS(1)-6								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-7								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-8								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-9								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-10								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-11								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-12								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-13								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-14								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-14/4HPCS(1)-4								
	WOL TO PIPE	B-J	SUR	PTP-1				
4HPCS(1)-1BU								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
4HPCS(1)-1								
	FLANGE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4HPCS(1)-2								
	PIPE TO WOL	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. HPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12HPCS(1)-15								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
HPCS-V-5-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
HPCS-V-5-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
HPCS-V-5/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
12HPCS(1)-16								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-16/3/4V-38								
	TEST CONN	B-P	VT-2	QCS&I-002				
12HPCS(1)-17								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
HPCS-V-51-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
HPCS-V-51-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
12HPCS(1)-18								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
PWS-2-1								
	PWS	B-K-2		N/A				SEE NOTE #1
12HPCS(1)-19								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12HPCS(1)-19/3/4PI(1)-4S								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
10HPCS(1)-1								
	EL TO PIPE	B-J	SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
10HPCS(1)-2								
	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-22			SEE RPV-105, NOZZLE N16
			SUR	PTP-1				
10HPCS(1)-3								
	SE EXT TO SE	B-F	VOL	UTP-31	UT-106			SEE RPV-105, NOZZLE N16
			SUR	PTP-1				
10HPCS(1)-4								
	SE TO NOZZLE	B-F	VOL	UTP-31'	UT-102			SEE RPV-105, NOZZLE N16
			SUR	PTP-1				
HPCS-PB-101								
	HPCS PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. LPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
LPCS-V-5-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
LPCS-V-5-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
LPCS-V-5/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
12LPCS(1)-1	VLV TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12LPCS(1)-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12LPCS(1)-2/3/4V-14	TEST CONN	B-P	VT-2	QCS&I-002				
12LPCS(1)-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12LPCS(1)-3/3/4V-712	PRESSURE TAP	B-P	VT-2	QCS&I-002				
12LPCS(1)-4	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12LPCS(1)-5	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12LPCS(1)-6	PIPE TO PEN	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12LPCS(1)-7	PEN TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12LPCS(1)-8	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-17			
12LPCS(1)-9	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-17			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. LPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12LPCS(1)-10								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-11								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-12								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-13								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-14								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-15								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-16								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-17								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-18								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-18/4LPCS(1)-4								
	WOL TO PIPE	B-J	SUR	PTP-1				
4LPCS(1)-1BU								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
4LPCS(1)-1								
	FLANGE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4LPCS(1)-2								
	PIPE TO WOL	B-J	VOL	UTP-10	UT-30			
			SUR	PTP				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. LPCS-101

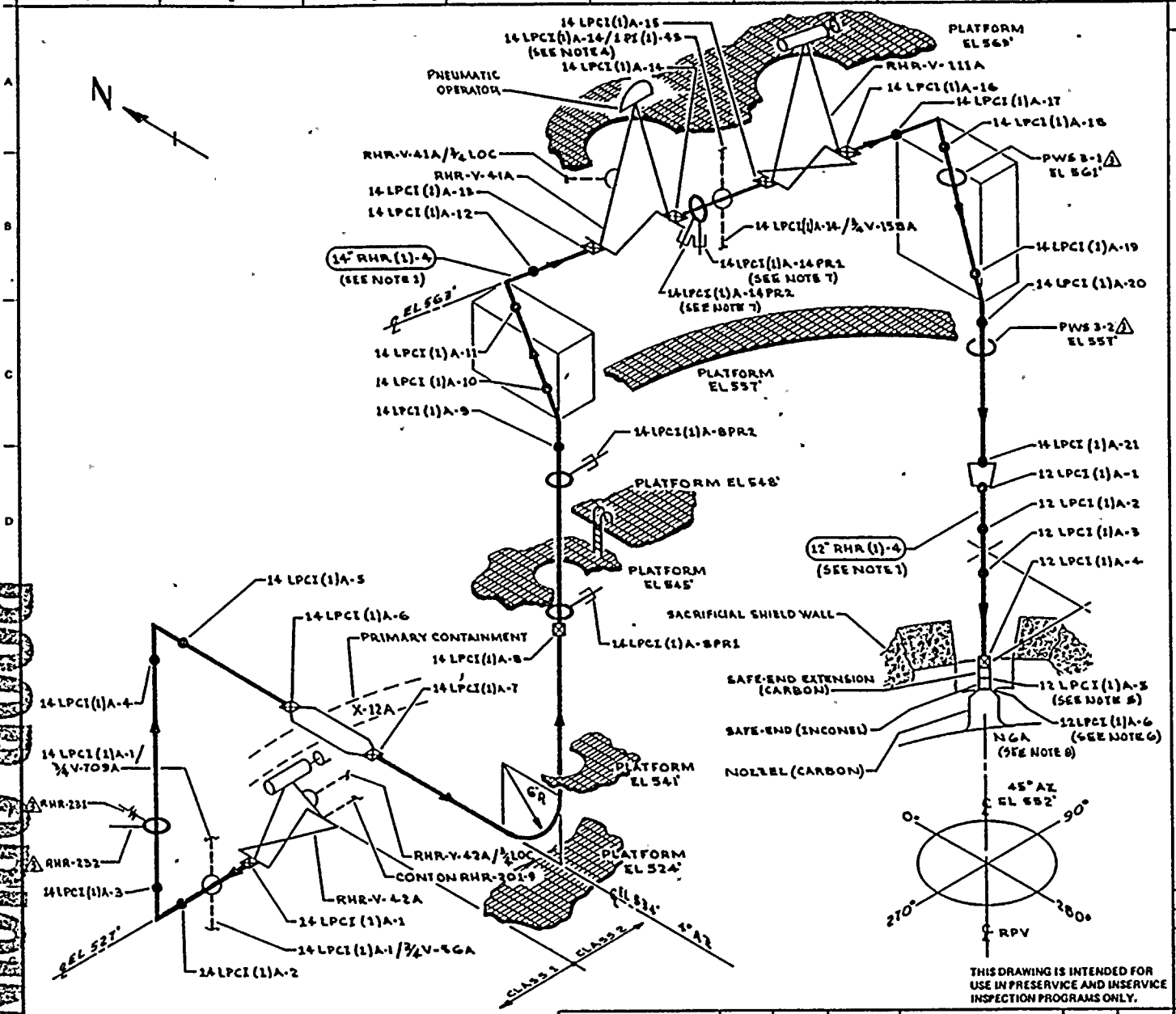
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
12LPCS(1)-19								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
LPCS-V-6-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
LPCS-V-6-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
LPCS-V-6/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
12LPCS(1)-20								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-20/3/4V-38								
	TEST CONN	B-P	VT-2	QCS&I-002				
12LPCS(1)-21								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
LPCS-V-51-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
LPCS-V-51-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
12LPCS(1)-22								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
PWS-1-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12LPCS(1)-23								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCS(1)-23/3/4PI(1)-45								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
10LPCS(1)-1								
	EL TO PIPE	B-J	VOL	UTP-10	UT-22			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. LPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
10LPCS(1)-2								
	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-22			SEE RPV-105,NOZ N5
			SUR	PTP-1				
10LPCS(1)-3								
	SE EXT TO SE	B-F	VOL	UTP-31	UT-106			SEE RPV-105,NOZ N5
			SUR	PTP-1				
10LPCS(1)-4								
	SE TO NOZZLE	B-F	VOL	UTP-31	UT-102			SEE RPV-105,NOZ N5
			SUR	PTP-1				
LPCS-PB-101								
	LPCS PRES BNDRY	B-P	VT-2	QCS&I-002				



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELDS AT NOZZEL N6A REQUIRES TEMPORARY SCAFFOLDING.
3. PWS 1B PR IS WITHIN ~4" OF WELD 14 LPCI (1)-18
4. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-74b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. DISSIMILAR METAL WELD, CS TO INCO, - USE CAL BLOCK UT-106.
6. DISSIMILAR METAL WELD, INCO TO CS, - USE CAL BLOCK UT-102.
7. ACCESS TO WELD 14 LPCI (1)A-14 REQUIRES REMOVAL OF 14 LPCI(1)A-14 PR1 & 14 LPCI (1)A-14 PR2.
8. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-110.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-851-20	REV 2
RHR-851-21,24	REV 1
RHR-851-20H	REV 0

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-4	14	80	0.750	SA 106 GR B	CS	UT-14
12" RHR (1)-4	12	80	0.688	SA 106 GR B	CS	UT-17

NO	DATE	REVISION	BY	CHKD	APPVD
3	11-5-80	CORRECTED SCH & WALL THK FOR 12" RHR (1)-4	KWLA	[illegible]	[illegible]
2	8-30-79	ADDED NOTE 8, ADDED CALLOUT IN A-4	KWLA	[illegible]	[illegible]
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 5)	KWLA	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KWLA	[illegible]	[illegible]
A	3-15-78	ISSUED FOR INFORMATION ONLY	KWLA	[illegible]	[illegible]

QUALITY CLASS: 1		ASME CODE CLASS: 1	
ENGR: D Porter	DRAWN: K McA	DATE: 12-1-77	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "A"

DWG NO: RHR-101 REV 3

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "A"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-V-42A-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-42A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-42A/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
14LPCI(1)A-1	VLV TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-14			
14LPCI(1)A-1/3/4V-709A	PRESSURE TAP	B-P	VT-2	QCS&I-002				
14LPCI(1)A-1/3/4V-56A	TEST CONN	B-P	VT-2	QCS&I-002				
14LPCI(1)A-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-14			
14LPCI(1)A-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-14			
RHR-231	SPRING HANGER	B-K-2	VT-3	QCS&I-002				
RHR-232	RIGID HANGER	B-K-2	VT-3	QCS&I-002				
14LPCI(1)A-4	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-14			
14LPCI(1)A-5	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-14			
14LPCI(1)A-6	PIPE TO PEN	B-J	VOL SUR	UTP-10 PTP-1	UT-14			
14LPCI(1)A-7	PEN TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-14			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "A"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14LPCI(1)A-8								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)A-8PR1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
14LPCI(1)A-8PR2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
14LPCI(1)A-9								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)A-10								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)A-11								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)A-12								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)A-13								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
RHR-V-41A-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-41A-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-41A/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
14LPCI(1)A-14								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)A-14PR1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)A-14PR2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-101

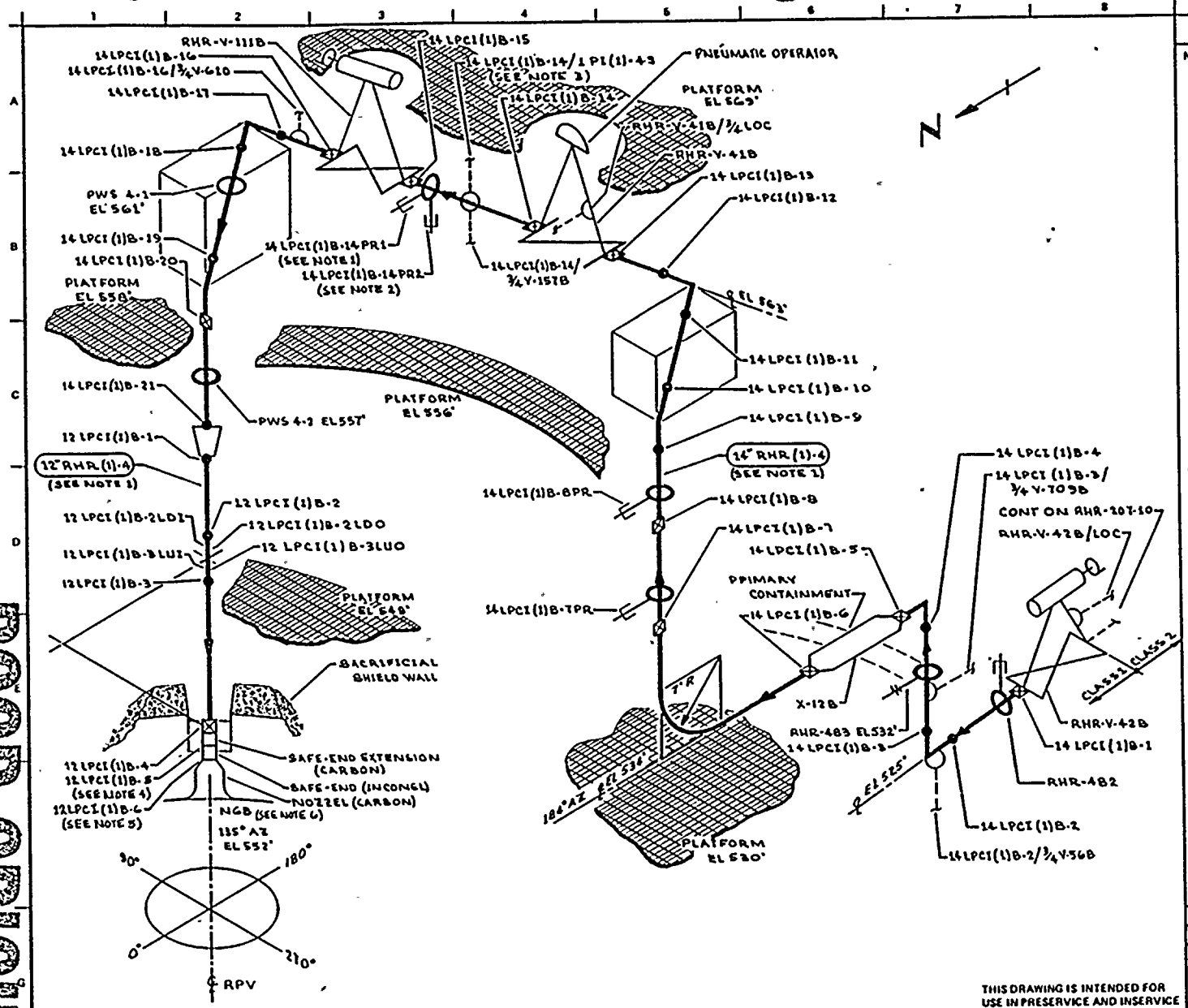
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "A"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14LPCI(1)A-14/1PI(1)-45								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
14LPCI(1)A-14/3/4V-158B								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
14LPCI(1)A-15								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
RHR-V-111A-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-111A-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
14LPCI(1)A-16								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)A-17								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)A-18								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
PWS-3-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
14LPCI(1)A-19								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)A-20								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
PWS-3-2								
	PWS	N/A	N/A	N/A				SEE NOTE #1
14LPCI(1)A-21								
	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
12LPCI(1)A-1								
	REDUCER TO PIPE	B-J	VOL.	UTP-10	UT-17			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "A"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12LPCI(1)A-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)A-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)A-4								
	PIPE TO SE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)A-5								
	SE EXT TO SE	B-F	VOL	UTP-31	UT-106			DISSIMILAR METAL (CS-INCO)
			SUR	PTP-1				
12LPCI(1)A-6								
	SE TO NOZZLE	B-F	VOL	UTP-31	UT-102			DISSIMILAR METAL (CS-INCO)
			SUR	PTP-1				
RHR-PB-101								
	RHR PRES BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELD 14 LPCI (1) B-16 REQUIRES REMOVAL OF 14 LPCI (1) B-14 PR1 & 2
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-39b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. DISSIMILAR METAL WELD. CS TO INCO, USE CAL BLOCK UT-106.
5. DISSIMILAR METAL WELD. INCO TO CS, USE CAL BLOCK UT-102.
6. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-110.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-899-38	REV 2
RHR-899-39-44	REV 1
RHR-899-88H	REV 0

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
3	11-6-80	CORRECTED OD & WALL THK FOR 12" RHR (1)-4	KMcA	RPP	RPP
2	7-17-79	DELETED ELBOW SEAM WELDS DOWN STREAM FROM [illegible] PER AS BUILT ISO'S B-5 & A-5	KMcA	RPP	[illegible]
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 4)	KMcA	RPP	RPP
0	11-27-78	ISSUED FOR USE	KMcA	RPP	RPP
A	8-15-78	ISSUED FOR INFORMATION ONLY	KMcA	RPP	RPP

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-4	14	80	0.750	SA-106 GR B	CS	UT-14
12" RHR (1)-4	12	80	0.688	SA-106 GR B	CS	UT-17

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D Porter | DRAWN: K. McA. | DATE: 12-9-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "B"

DWG NO: RHR-102 | REV 3

8008260144

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
RHR-V-42B-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-42B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-42B/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
14LPCI(1)B-1	VLV TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
RHR-482	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)B-1/3/4V-56B	TEST CONN	B-P	VT-2	QCS&I-002				
14LPCI(1)B-2	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-3	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-3/3/4V-709B	PRESSURE TAP	B-P	VT-2	QCS&I-002				
14LPCI(1)B-3PR	SPRING HANGER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)B-4	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-5	EL TO PEN	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-6	PEN TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-7	PIPE TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14LPCI(1)B-7PR								
	SNUBBER	B-K-2	VT-4	QCS&I-002				
14LPCI(1)B-8								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-8PR								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)B-9								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-10								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-11								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-12								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-13								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
RHR-V-41B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-41B-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-41B/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
14LPCI(1)B-14								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-14/1PI(1)-4S								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
14LPCI(1)B-14/3/4V-157B								
	TEST CONN	B-P	VT-2	QCS&I-002				

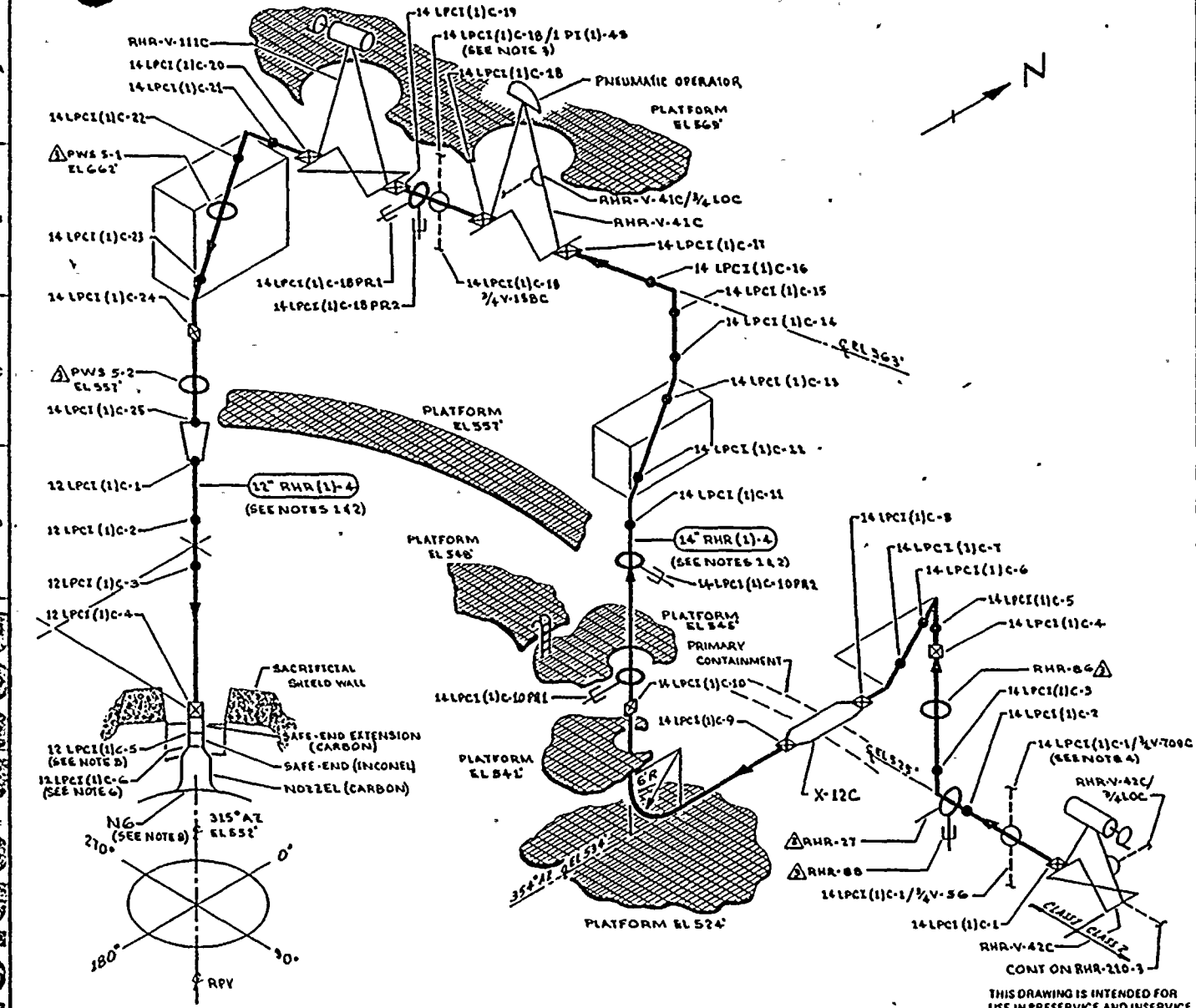
WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14LPCI(1)B-14PR1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)B-14PR2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)B-15								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
RHR-V-111B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-111B-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
14LPCI(1)B-16								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-16/3/4V-610								
	TEST CONN	B-P	VT-2	QCS&I-002				
14LPCI(1)B-17								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-18								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
PWS-4-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
14LPCI(1)B-19								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)B-20								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
PWS-4-2								
	PWS	N/A	N/A	N/A				SEE NOTE #1
14LPCI(1)B-21								
	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12LPCI(1)B-1								
	REDUCER TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)B-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)B-2LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)B-2LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)B-3LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)B-3LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)B-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)B-4								
	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)B-5								
	SE EXT TO SE	B-J	VOL	UTP-10	UT-105			DISSIMILAR METAL (CS-INCO)
			SUR	PTP-1				
12LPCI(1)B-6								
	SE TO NOZZLE	B-J	VOL	UTP-10	UT-102			DISSIMILAR METAL (CS-INCO)
			SUR	PTP-1				
RHR-PB-102								
	RHR PRES BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELDS 12 LPCI(1)C-1 THROUGH 12 LPCI(1)C-6 & 14 LPCI(1)C-24 REQUIRES TEMPORARY SCAFFOLDING.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT (X-39c) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND VISUAL LEAKAGE EXAM THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. DISSIMILAR METAL WELD, CS TO INCO,- USE CAL BLOCK UT-106.
6. DISSIMILAR METAL WELD, INCO TO CS,- USE CAL BLOCK UT-102.
7. ACCESS TO WELD 14 LPCI(1)C-18 REQUIRES REMOVAL OF 14 LPCI(1)C-18PR1 & 14 LPCI(1)C-18PR2.
8. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-110

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-B57-19	REV 2
RHR-B57-20-24	REV 5

QUALITY CLASS: 1		ASME CODE CLASS: 1	
ENGR: D PORTER	DRAWN: K-M&A	DATE: 12-9-77	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR(1)-4	14	80	0.750	SA-106 GR B	CS	UT-14
12" RHR(1)-4	12	80	0.688	SA-106 GR B	CS	UT-17

NO	DATE	REVISION	BY	CHKD	APPVD
3	11-5-80	CORRECTED SCH & WALL THK FOR 12" RHR(1)-4 & NOTED	K-M&A	[illegible]	[illegible]
2	[illegible]	CORRECTED NOTE 7, ADDED NOTE 8 & CALL-OUT EL A-4	K-M&A	[illegible]	[illegible]
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 5)	K-M&A	[illegible]	[illegible]
0	11-17-78	ISSUED FOR USE	K-M&A	[illegible]	[illegible]
A	3-15-78	ISSUED FOR INFORMATION ONLY	K-M&A	[illegible]	[illegible]

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "C"

DWG NO: RHR-103 REV 3

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-V-42C-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-42C-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-42C/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
14LPCI(1)C-1								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-1/3/4V-56C								
	TEST CONN	B-P	VT-2	QCS&I-002				
14LPCI(1)C-1/3/4V-709C								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
14LPCI(1)C-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
RHR-27								
	RIGID HANGER	B-K-2	VT-3	QCS&I-002				
RHR-88								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)C-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
RHR-86								
	SPRING HANGER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)C-4								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-5								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-6								
	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14LPCI(1)C-7	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-8	EL TO PEN	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-9	PEN TO PEN	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-10	PIPE TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-10PR1	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)C-10PR2	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)C-11	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-12	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-13	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-14	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-15	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-16	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
14LPCI(1)C-17								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
RHR-V-41C-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-41C-BLT								
	VALVE BOLTING	B-M-2	VT-1	QCS&I-002				
RHR-V-41C/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
14LPCI(1)C-18								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-18/1PI(1)-45								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
14LPCI(1)C-18/3/4V-158C								
	TEST CONN	B-P	VT-2	QCS&I-002				
14LPCI(1)C-18PR1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)C-18PR2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14LPCI(1)C-19								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
RHR-V-111C-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-111C-BLT								
	VALVE BOLTING	B-M-2	VT-1	QCS&I-002				
14LPCI(1)C-20								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-21								
	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTON COOL SUCT

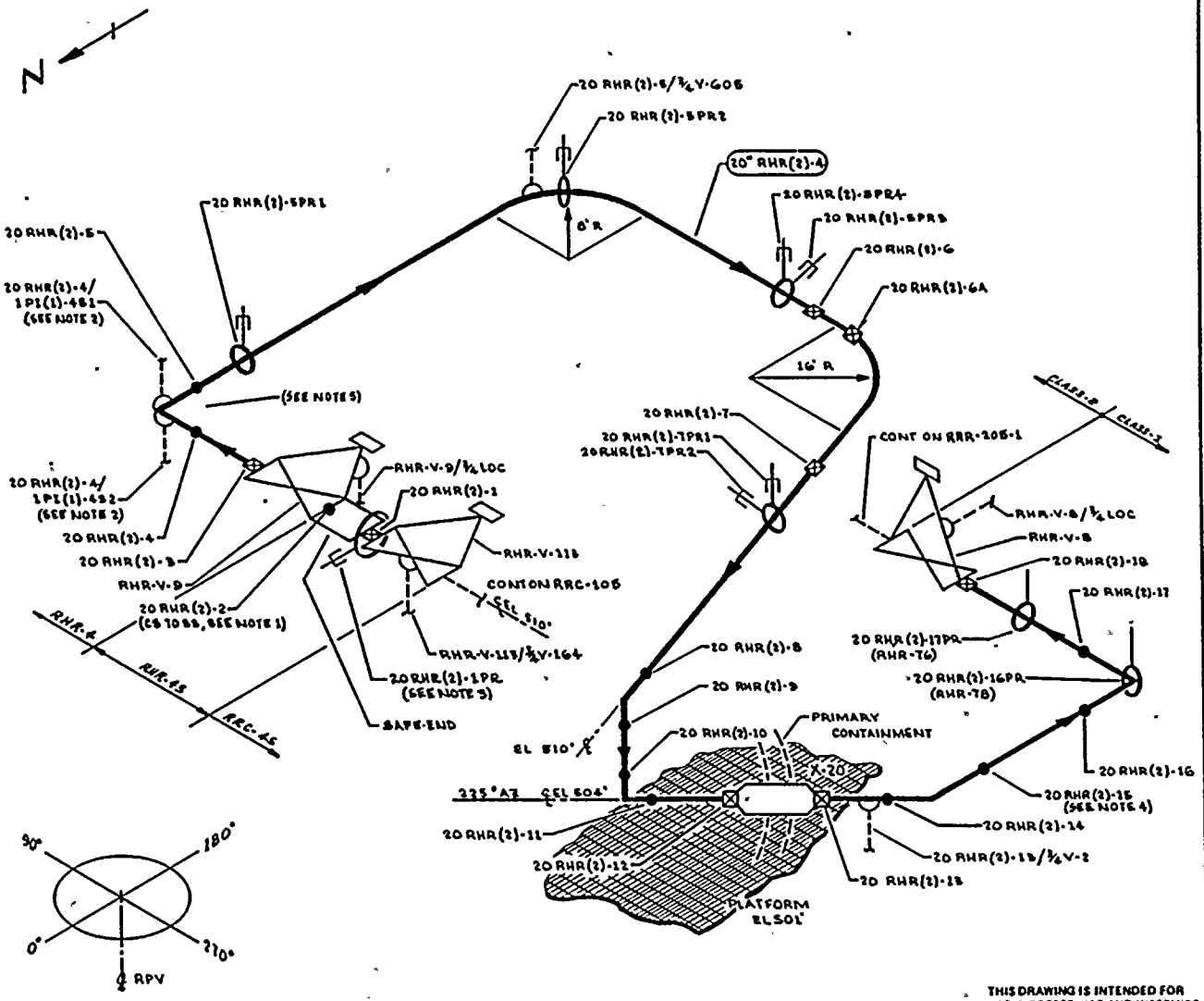
DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
14LPCI(1)C-22	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
PWS-5-1	PWS	N/A	N/A	N/A				SEE NOTE #1
14LPCI(1)C-23	PIPE TO EL	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
14LPCI(1)C-24	EL TO PIPE	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
PWS-5-2	PWS	N/A	N/A	N/A				SEE NOTE #1
14LPCI(1)C-25	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-14			
			SUR	PTP-1				
12LPCI(1)C-1	REDUCER TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)C-2	PIPE TO EL	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)C-3	EL TO PIPE	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)C-4	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-17			
			SUR	PTP-1				
12LPCI(1)C-5	SE EXT TO SE	B-F	VOL	UTP-31	UT-106			DISSIMILAR METAL (CS-INCO)
			SUR	PTP-1				
12LPCI(1)C-6	SE TO NOZZLE	B-F	VOL	UTP-31	UT-102			DISSIMILAR METAL (CS-INCO)
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-PB-103	RHR PRES BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. DISSIMILAR METAL WELD, CS TO SS USE CAL BLOCK UT-9
2. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT (X-37 & F) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. ACCESS TO WELDS 20RHR(2)-1 & 20 RHR(2)-2 REQUIRES REMOVAL OF 20 RHR(2)-1PR.
4. DISTANCE BETWEEN WELDS 20RHR(2)-15 & 20 RHR(2)-16 IS 4".
5. AN ELECTRICAL JUNCTION BOX IS BELOW PIPE WITH 2" TO 8" CLEARANCE.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-874-1.3	REV 4
RHR-874-G	REV 4

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR(2)-4	20	80	1.031	SA 106 GR B	CS	UT-10
20" RHR(2)-45	20	80	1.031	SA 376 TP 304	SS	UT-9

NO	DATE	REVISION	BY	CHKD	APPVD
1	5-12-79	ADDED FIELD WELD 20 RHR(2)-6A PER AS BUILT, IN C-6	KM&A	[illegible]	[illegible]
0	11-29-78	ISSUED FOR USE	KM&A	[illegible]	[illegible]
A	8-15-78	ISSUED FOR INFORMATION ONLY	KM&A	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: KM&A | DATE: 12-13-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR SHUTDOWN COOLING SUCTION

DWG NO: RHR-104 | REV 1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(2)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
RHR-V-113-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-113-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
20RHR(2)-1/3/4-164								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
20RHR(2)-1								
	VLV TO SE	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RHR(2)-1PR								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)-2								
	SE TO PIPE	B-F	VOL	UTP-10	UT-9			DISSIMILAR METAL (SS-CS)
			SUR	PTP-1				
RHR-V-9-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-9-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-9/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
20RHR(2)-3								
	VLV TO PIPE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-4/1PI(1)-4S-1								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
20RHR(2)-4/1PI(1)-4S-2								
	PRESSURE TAP	B-P	VT-2	QCS&I-002				
20RHR(2)-5								
	EL TO PIPE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(2)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RHR(2)-5PR1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)-5/3/4V605								
	TEST CONN	B-P	VT-2	QCS&I-002				
20RHR(2)-5PR2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)-5PR3								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)-5PR4								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)-6								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-6A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-7								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-7PR1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)-7PR2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)-8								
	PIPE TO EL	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-9								
	EL TO PIPE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(2)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

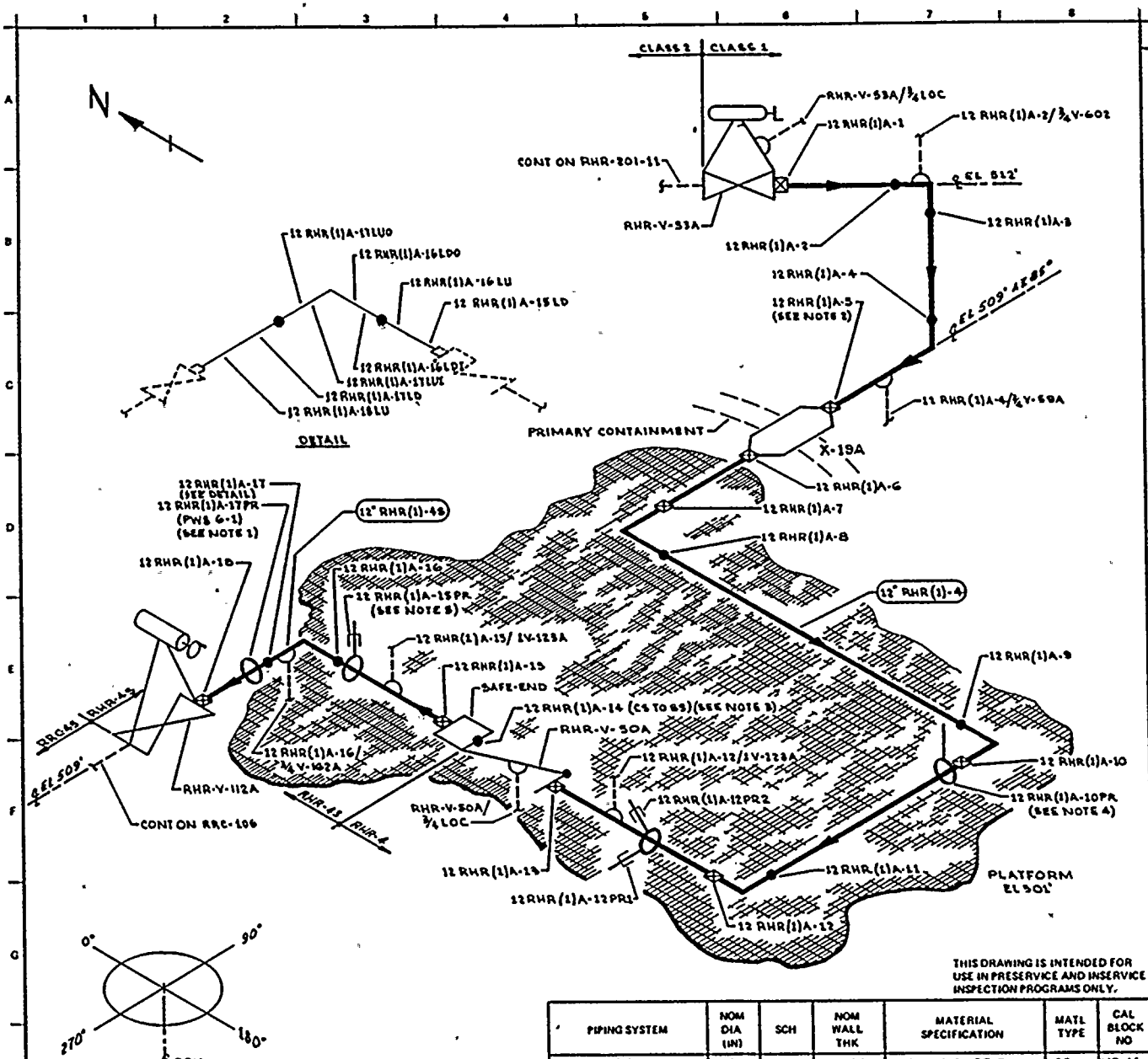
DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RHR(2)-10								
	PIPE TO EL	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-11								
	EL TO PIPE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-12								
	PIPE TO PEN	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-13								
	PEN TO PIPE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-13/3/4V-2								
	TEST CONN	B-P	VT-2	QCS&I-002				
20RHR(2)-14								
	PIPE TO EL	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
20RHR(2)-15								
	EL TO PIPE	B-J	VOL	UTP-10	UT-10			FITTING TO FITTING
			SUR	PTP-1				
20RHR(2)-16								
	PIPE TO EL	B-J	VOL	UTP-10	UT-10			FITTING TO FITTING
			SUR	PTP-1				
RHR-78								
	HANGER	B-K-2	VT-3	QCS&I-002				
20RHR(2)-17								
	EL TO PIPE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
RHR-76								
	HANGER	B-K-2	VT-3	QCS&I-002				
20RHR(2)-18								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
RHR-V-8-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(2)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-V-8-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-8/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
RHR-PB-104	RHR PRES BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. ACCESS TO WELD 12 RHR(1)A-18 REQUIRES REMOVAL OF 12 RHR(1)A-17PR.
2. WELD 12 RHR(1)A-5 IS FITTING TO FITTING
3. DISSIMILAR METAL WELD, CS TO SS, USE CAL BLOCK
4. ACCESS TO WELD 12 RHR(1)A-10 REQUIRES REMOVAL OF 12 RHR(1)A-10PR
5. ACCESS TO WELD 12 RHR(1)A-16 REQUIRES REMOVAL OF 12 RHR(1)A-15PR.

REFERENCES.

BOVEE & CRAIL ISOMETRICS:

RHR-851-14	REV 1
RHR-851-15,16	REV 3
RHR-851-17	REV 2

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RHR(1)-4	12	100	0.844	SA 106 GR B	CS	UT-16
12" RHR(1)-48	12	80	0.688	SA 312 GR B	SS	UT-19

NO	DATE	REVISION	BY	CHKD	APPVD
1	8-30-79	ADDED LONG SEAM DOWNSTREAM FROM WELDS 12 RHR(1)A-15, 16, 17 PER AS BUILT, ADDED DETAIL FOR CLARITY, 7 IN C-3	KMcA		
0	11-29-78	ISSUED FOR USE	KMcA		
A	8-15-78	ISSUED FOR INFORMATION ONLY	KMcA		

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: K. McA | DATE: 12-14-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:

SHUTDOWN COOLING RETURN LOOP "A"

DWG NO: RHR-105 | REV 1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-V-53A-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-53A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-53A/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
12RHR(1)A-1	VLV TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)A-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)A-2/3/4V-602	VENT CONN	B-P	VT-2	QCS&I-002				
12RHR(1)A-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)A-4	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)A-4/3/4V-59A	TEST CONN	B-P	VT-2	QCS&I-002				
12RHR(1)A-5	EL TO PEN	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)A-6	PEN TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)A-7	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)A-8	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)A-9	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-16			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RHR(1)A-10								
	EL TO PIPE	B-J	VOL	UTP-10	UT-16			
			SUR	PTP-1				
12RHR(1)A-10PR								
	HANGER	B-K-2	VT-3	QCS&I-002				
12RHR(1)A-11								
	PIPE TO EL	B-J	VOL	UTP-10	UT-10			
			SUR	PTP-1				
12RHR(1)A-12								
	EL TO PIPE	B-J	VOL	UTP-10	UT-16			
			SUR	PTP-1				
12RHR(1)A-12PR1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
12RHR(1)A-12PR2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
12RHR(1)A-12/1V-123A								
	BYPASS CONN	B-P	VT-2	QCS&I-002				
12RHR(1)A-13								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-16			
			SUR	PTP-1				
RHR-V-50A-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-50A-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-50A/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
12RHR(1)A-14								
	VALVE TO SE	B-F	VOL	UTP-10	UT-19			DISSIMILAR METAL (CS-SS)
			SUR	PTP-1				
12RHR(1)A-15								
	SE TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-105

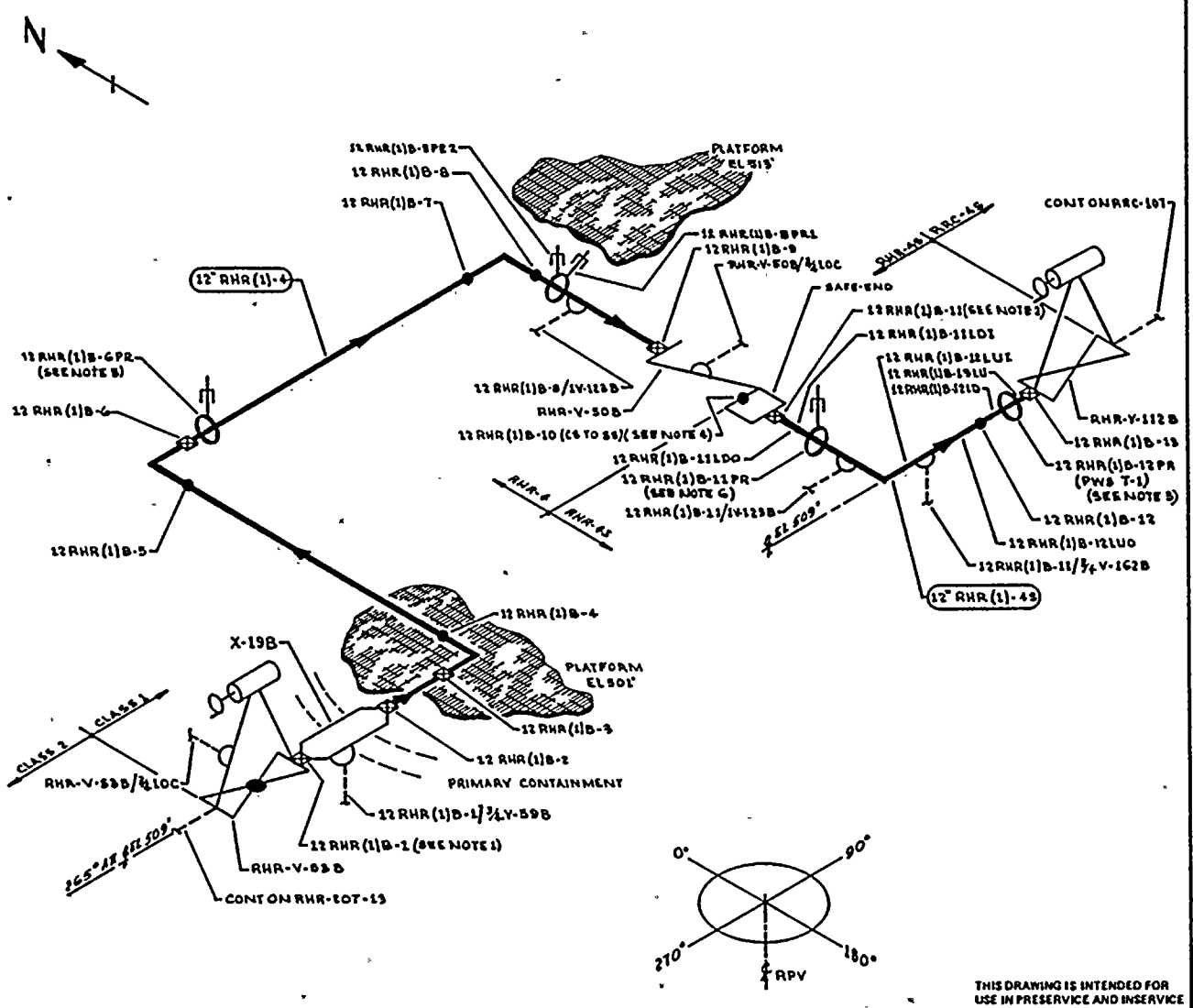
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4S
DESCRIPTION: SHUTDN COOL RET LP-A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RHR(1)A-15LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)A-15/1V-123A								
	BYPASS CONN	B-P	VT-2	QCS&I-002				
12RHR(1)A-15PR								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
12RHR(1)A-16LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)A-16								
	PIPE TO EL	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)A-16LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)A-16LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)A-16/3/4-162A								
	TEST CONN	B-P	VT-2	QCS&I-002				
12RHR(1)A-17LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)A-17LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)A-17								
	EL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)A-17LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4S
DESCRIPTION: SHUTDN COOL RET LP-A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
PWS-6-1	PWS	N/A	N/A	N/A				SEE NOTE #1
12RHR(1)A-18LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RHR(1)A-18	PIPE TO VLV	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
RHR-V-112A-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-112A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-PB-105	RHR PRES BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. WELD Nº 12 RHR(1)B-1 IS FITTING TO FITTING.
2. WELD Nº 12 RHR(1)B-11 IS FITTING TO FITTING.
3. ACCESS TO WELD Nº 12 RHR(1)B-13 REQUIRES REMOVAL OF 12 RHR(1)B-12PR
4. DISSIMILAR METAL WELD, C6 TO S6, - USE CAL BLOCK UT-19.
5. ACCESS TO WELD Nº 12 RHR(1)B-6 REQUIRES REMOVAL OF 12 RHR(1)B-6PR
6. ACCESS TO WELD Nº 12 RHR(1)B-11 REQUIRES REMOVAL OF 12 RHR(1)B-13 PR

REFERENCES:

BOVEE & CRAIL ISOMETRICS:
RHR-899-46.47 REV 2
RHR-899-48 REV 1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RHR(1)-4	12	100	0.844	SA 106 GR B	CS	UT-16
12" RHR(1)-43	12	80	0.688	SA 312 TP 304	SS	UT-19

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-12-79	ADDED LONG SEAM DOWN STREAM FROM WELD 12 RHR(1)B-12 PER AS BUILT CAL C-7	V.M.A		
0	11-21-78	ISSUED FOR USE	V.M.A		
A	8-15-78	ISSUED FOR INFORMATION ONLY	V.M.A		

QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D PORTER | DRAWN: V.M.A | DATE: 12-15-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
SHUTDOWN COOLING RETURN LOOP "B"

DWG NO: RHR-106 | REV 1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-V-53B-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-53B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-53B/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
12RHR(1)B-1	VLV TO PEN	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)B-1/3/4-59B	TEST CONN	B-P	VT-2	QCS&I-002				
12RHR(1)B-2	PEN TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)B-3	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)B-4	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)B-5	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)B-6	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-10			
12RHR(1)B-6PR	SNUBBER	B-K-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
12RHR(1)B-7	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-16			
12RHR(1)B-8	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-16			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-106

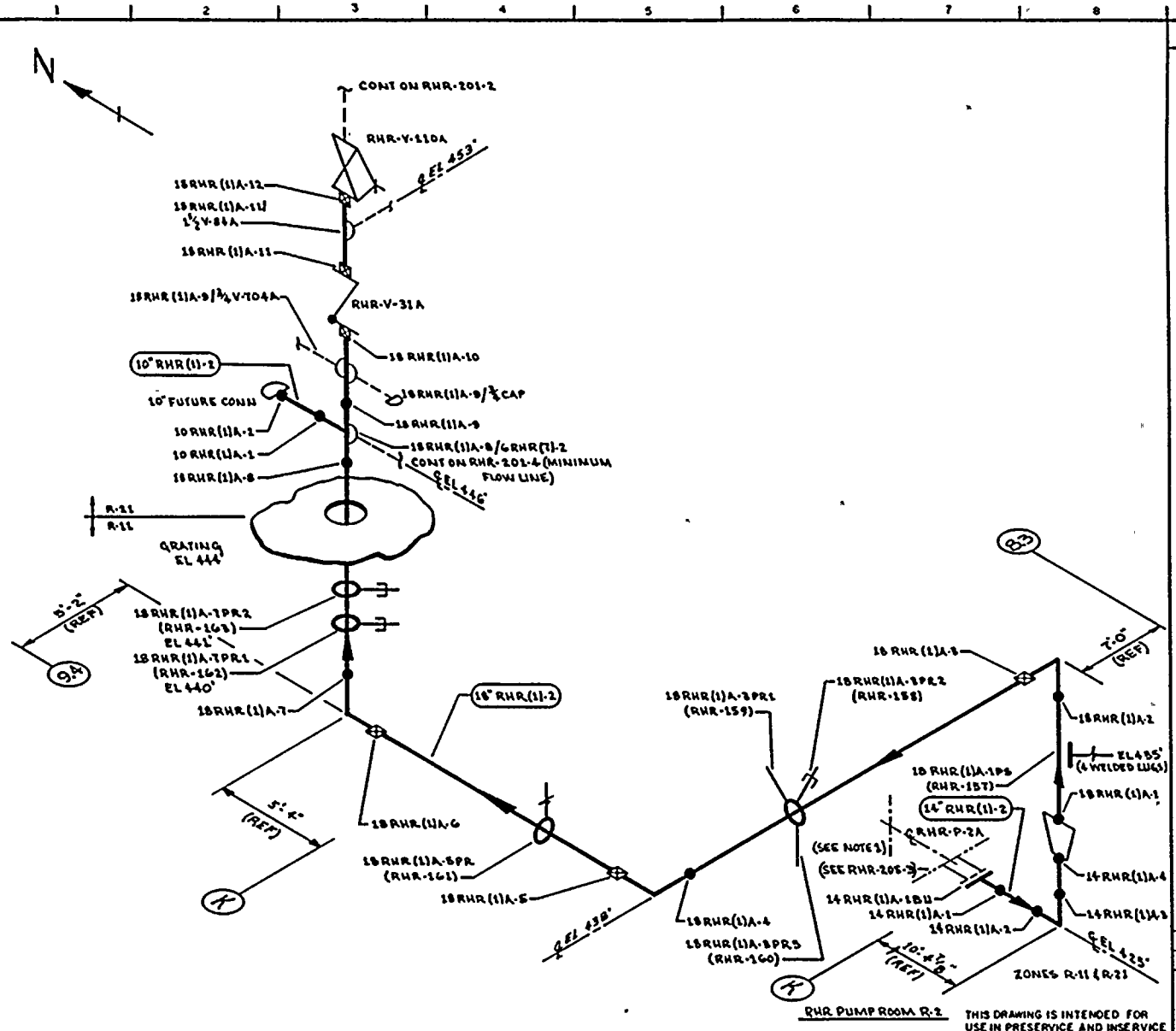
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RHR(1)B-8PR1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
12RHR(1)B-8PR2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
12RHR(1)B-8/1V-123B								
	BYPASS CONN	B-P	VT-2	QCS&I-002				
12RHR(1)B-9								
	PIPE TO VLV	B-J	VOL	UTP-10	UT-16			
			SUR	PTP-1				
RHR-V-50B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-50B-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-V-50B/3/4LOC								
	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
12RHR(1)B-10								
	VLV TO SE	B-F	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)B-11								
	SE TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)B-11LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)B-11LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RHR(1)B-11PR								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
12RHR(1)B-11/1V-123B								
	BYPASS CONN	B-P	VT-2	QCS&I-002				
12RHR(1)B-11/3/4V-162B								
	TEST CONN	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-4S
DESCRIPTION: SHUTDN COOL RET LP-B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RHR(1)B-12LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RHR(1)B-12LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RHR(1)B-12	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RHR(1)B-12LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
PWS-7-1	PWS	N/A	N/A	N/A				SEE NOTE #1
12RHR(1)B-13LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RHR(1)B-13	PIPE TO VLV	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
RHR-V-112B-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RHR-V-112B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RHR-PB-106	RHR PRES BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. EXTEND VISUAL LEAKAGE EXAM OF RHR-PUMP-2A VENTS & DRAINS TO OUTERMOST NORMALLY CLOSED VALVE.

REFERENCES:

BOYER & CRAIL ISOMETRICS

RHR-BGT-1.4	REV 3
RHR-BGT-8.7	REV 3
RHR-BGT-1.4H	REV 1
RHR-BGT-8.7H	REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	C6	NA
18" RHR (1)-2	18	20	0.438	SA 106 GR B	C6	NA
10" RHR (1)-2	10	40	0.365	SA 106 GR B	C6	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	5-22-78	ISSUED FOR USE	KWL	RWC	GAK
A	5-26-78	ISSUED FOR INFORMATION ONLY	KWL	GAK	GAK

QUALITY CLASS: 1 | ASME CODE CLASS: 2

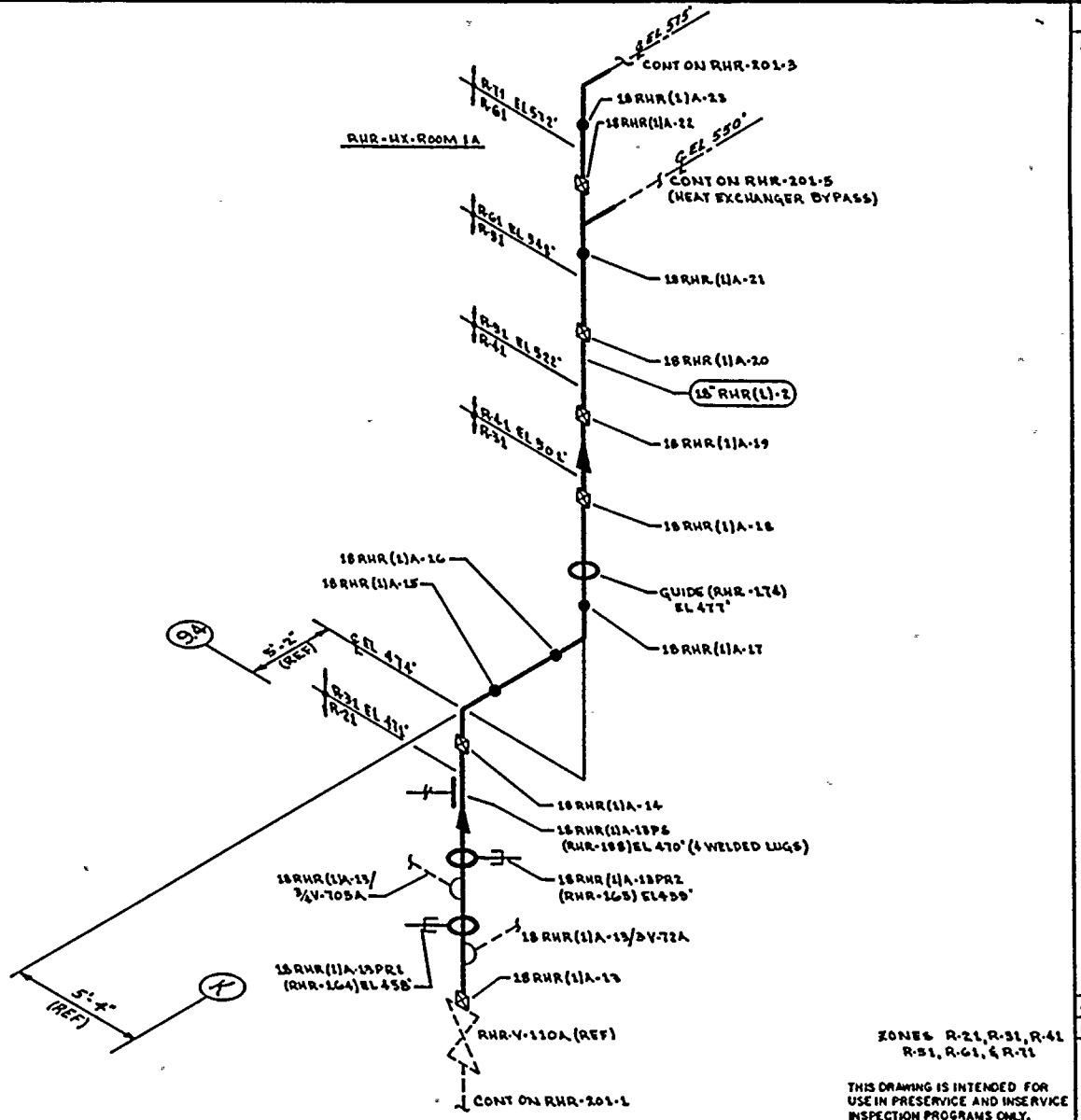
ENGR: G.A. KUGLER | DRAWN: K.M.L. | DATE: 5-1-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
SUPPLY TO RHR-HX-1A

DWG NO: RHR-201-1 | REV 0



ZONES R-21, R-31, R-41
R-51, R-61, & R-71

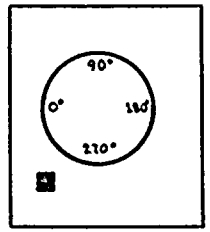
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-867-8.7	REV 3
RHR-867-8.12	REV 2
RHR-867-8.7H	REV 2
RHR-867-8.12	REV 1



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K.M.A. DATE: 5-1-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

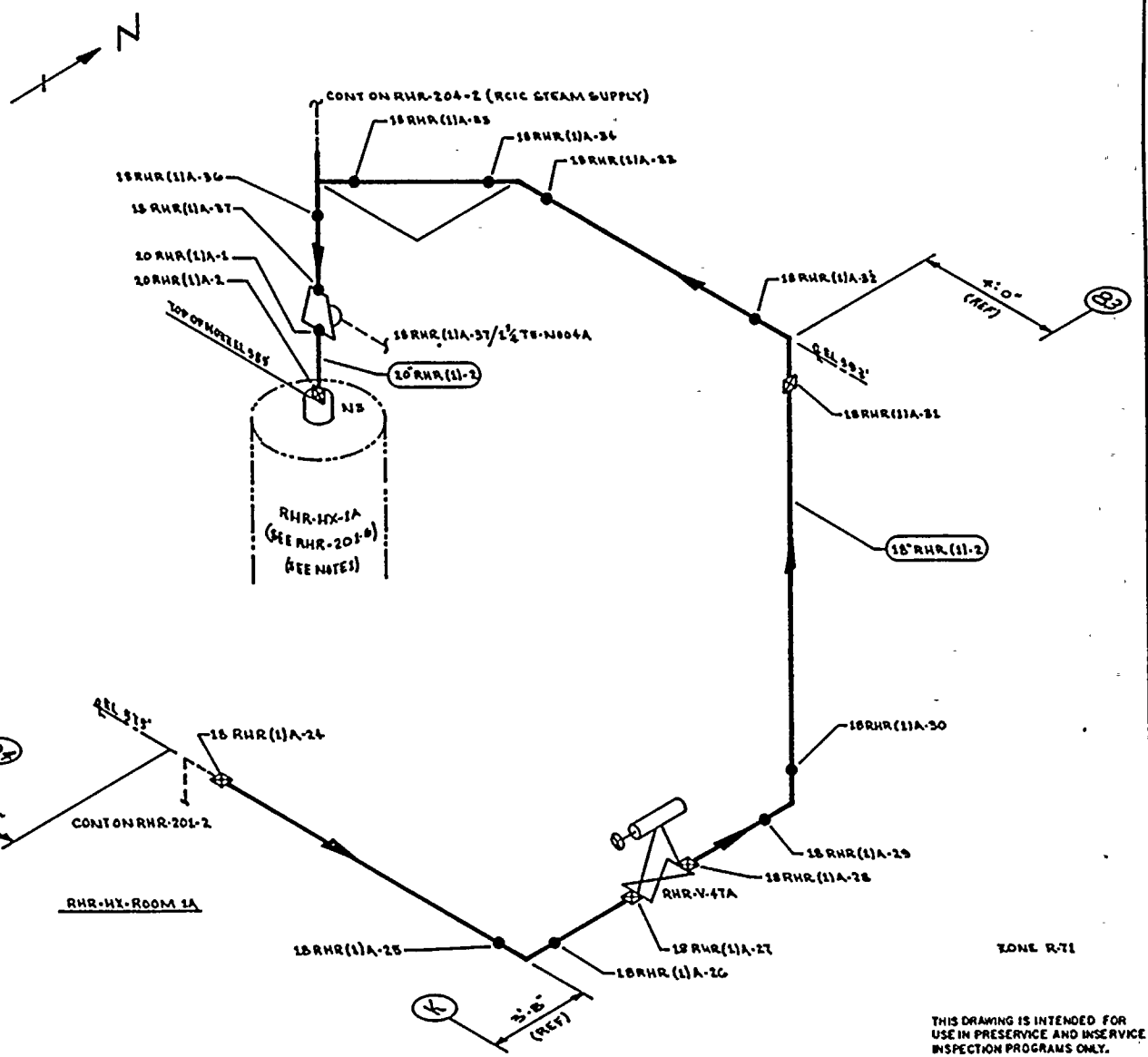
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR(1)-2	18	80	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
SUPPLY TO RHR-HX. 1A

DWG NO: RHR-201-2 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-22-78	ISSUED FOR USE	KMA	GAK	GAK
A	5-24-78	ISSUED FOR INFORMATION ONLY	KMA	GAK	GAK

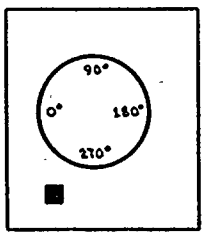


NOTES:

1. EXTEND VISUAL LEAKAGE EXAM OF RHR-HX-1A VENTS & DRAINS THROUGH OUTERMOST NORMALLY CLOSED ISOLATION VALVE, RELIEF VALVE OR TRANSITION TO INSTRUMENT TUBING.

REFERENCES:

BOYER & CRAIL ISOMETRIC
RHR-BGT-13.15 REV 1



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	NA
20" RHR (1)-2	20	30	0.500	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE	K.W.L	[illegible]	[illegible]
A	5-16-78	ISSUED FOR INFORMATION ONLY	K.W.L	GAK	QAR

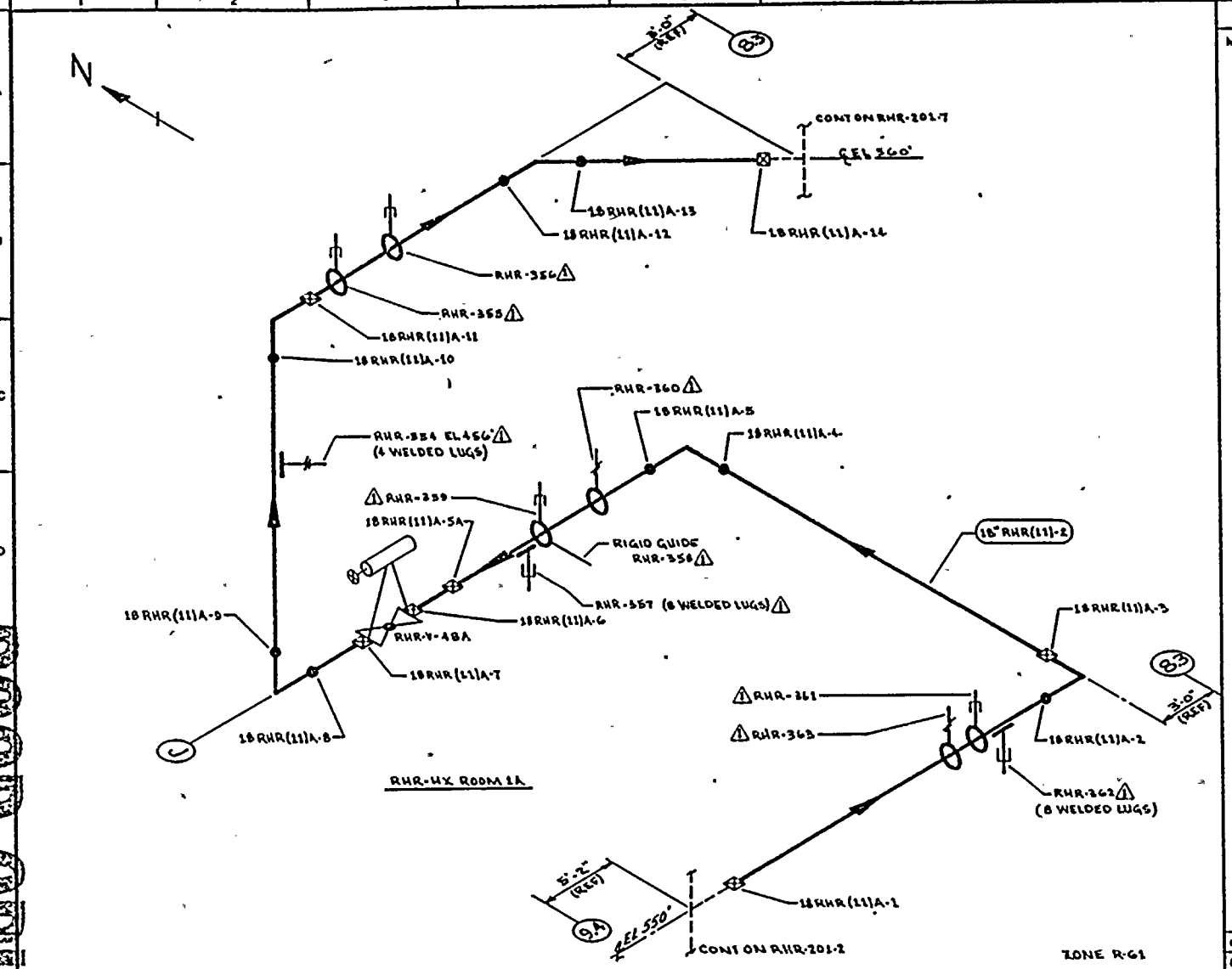
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: GA KUGLER | DRAWN: K-M-C-A | DATE: 5-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
SUPPLY TO RHR-HX-1A

DWG NO: RHR-201-3 | REV 0



NOTES:

REFERENCES:
BOVEN & CRAIL ISOMETRICS
RHR-852-1.4 REV 1
RHR-852-1.4H REV 0

KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR(11)-2	18	30	0.438	SA 106 GR B	C6	N/A

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-6-80	ADDED FIELD WELD 18RHR(11)A-5A & AS NOTED	KMcA	JFF	GLV
0	11-11-11	ISSUED FOR USE	KMcA	JFF	GLV
A	5-16-78	ISSUED FOR INFORMATION ONLY	KMcA	GAK	GLV

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

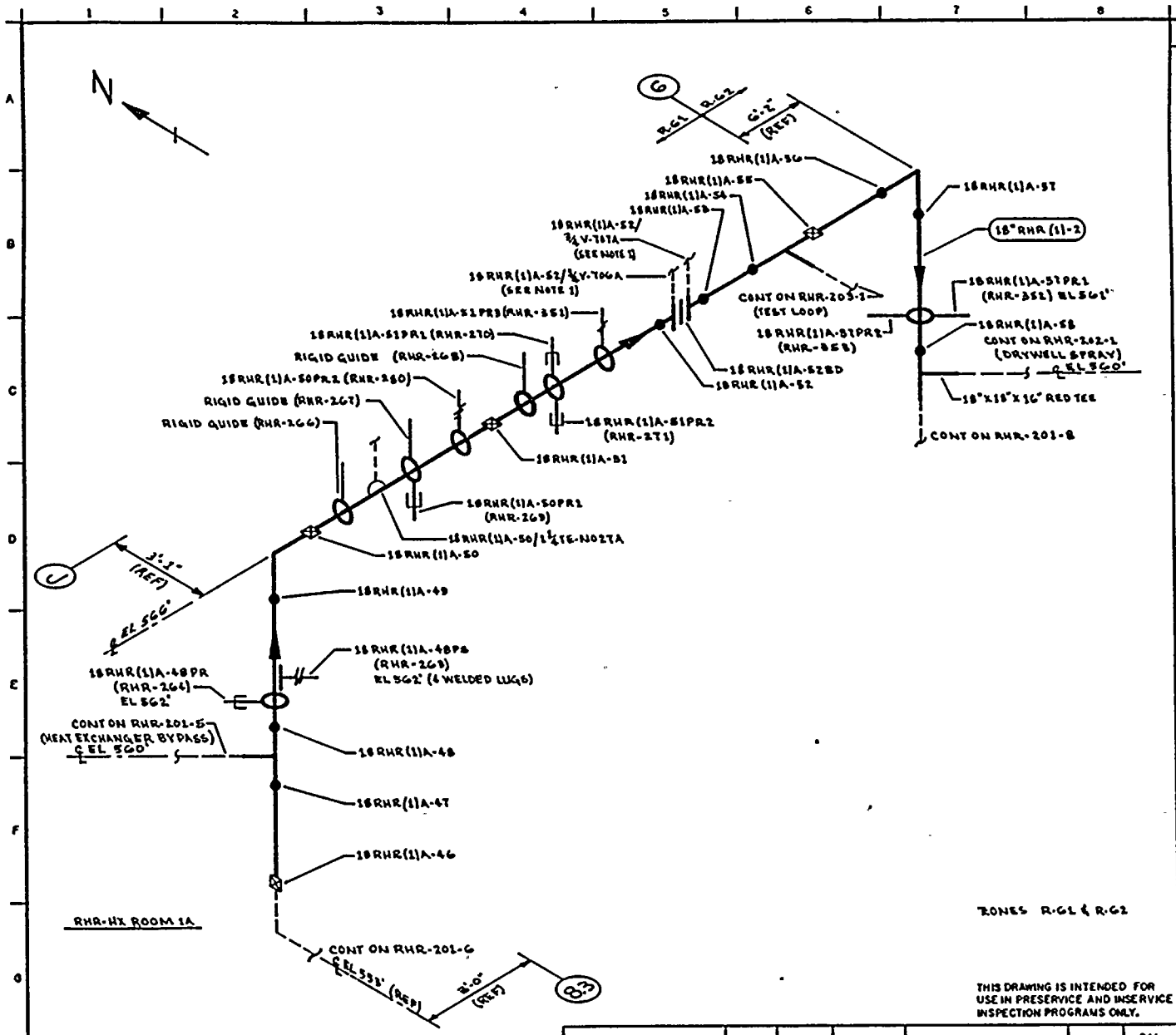
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: GA KUGLER | DRAWN: K.M.c.A | DATE: 5-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
RHR-HEAT-EXCHANGER BYPASS

DWG NO: RHR-201-5 | REV 1

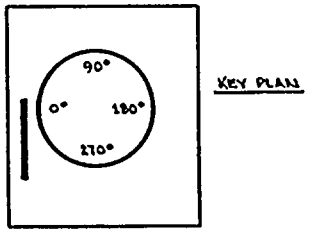


NOTES:

1. THESE ARE 1/2" CONNECTIONS WITH VISUAL EXAM EXTEND TO 3/4 V-706A, 3/4 V-787A, 3/4 V-728A & 3/4 V-729A.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-851-3.9 REV 2
RHR-851-3.9H REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR:	DRAWN: K.M.C.L. DATE: 5-4-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

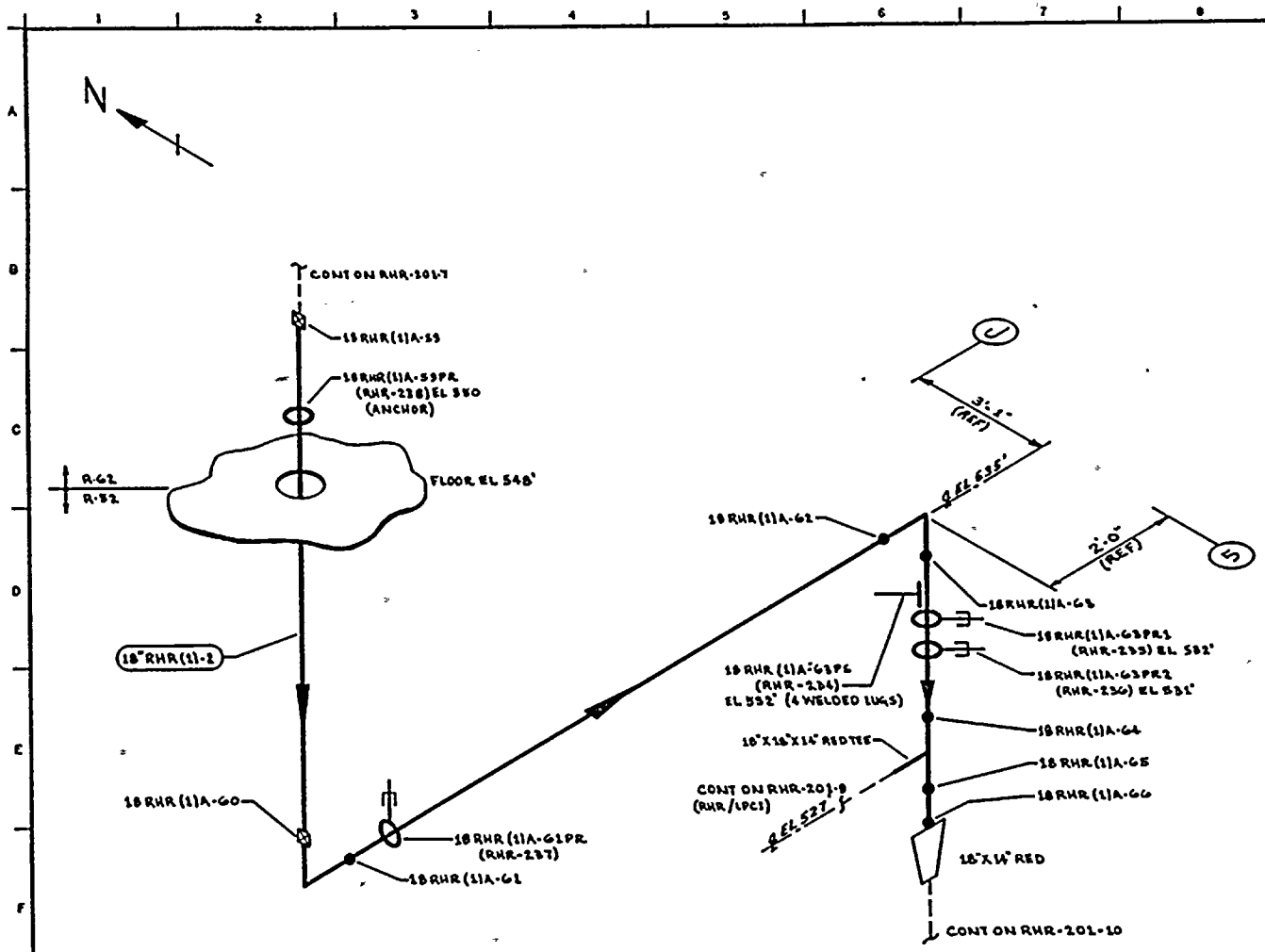
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP A SUPPLY FROM RHR-HX-1A

DWG NO: RHR-201-7 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE	KMJ	[illegible]	[illegible]
A	5-26-78	ISSUED FOR INFORMATION ONLY	KMJ	GAK	[illegible]



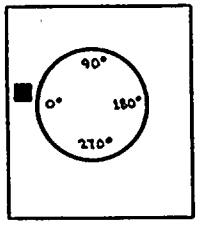
NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRIC

RHR-BB1-3.9 REV 2

RHR-BB1-3.9H REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: GA KUGLER	DRAWN: K-M-C-A	DATE: 5-4-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

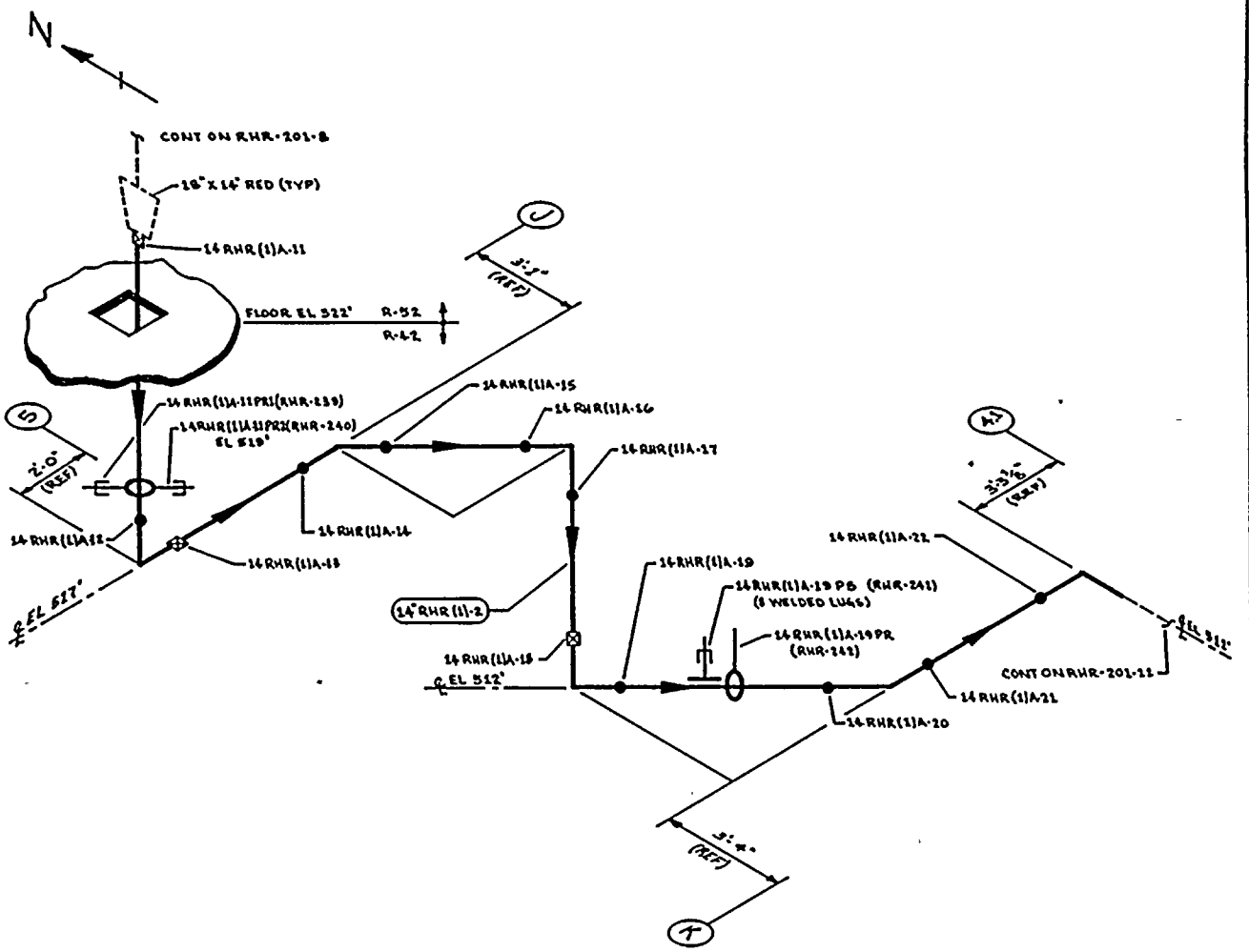
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	80	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A SUPPLY FROM
RHR-HX-1A

DWG NO: RHR-201-8 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	5-22-78	ISSUED FOR USE	KMA	GAK	GAK
A	5-26-78	ISSUED FOR INFORMATION ONLY	KMA	GAK	GAK



ZONES R-42 & R-52

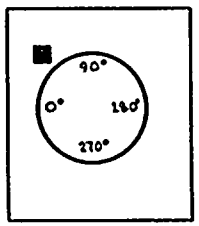
NOTES:

REFERENCES

BOVEE & CRAIL ISOMETRICS

RHR-851-10-12 REV 0

RHR-851-10-12H REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER / DRAWN: K. McA.	DATE: 5-8-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	CS	NA

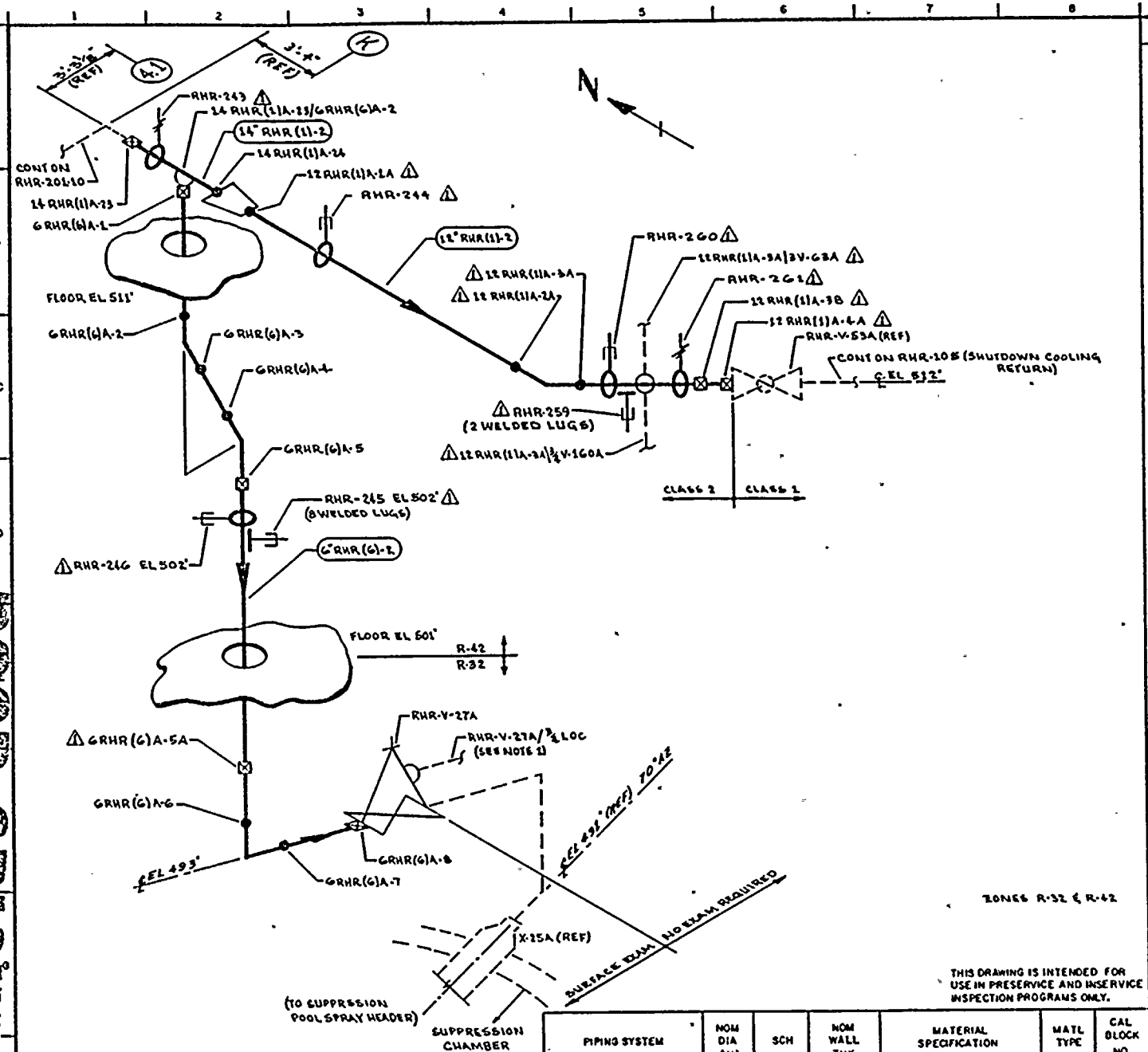
NO	DATE	REVISION	BY	CHKD	APPVD
0	12-11-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	5-26-78	ISSUED FOR INFORMATION ONLY	KMcA	GAK	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
SUPPLY FROM RHR-HX-1A

DWG NO: RHR-201-10 REV 0



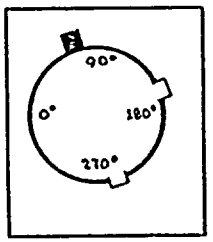
NOTES:

1. THIS IS A ½" CONNECTION WITH VISUAL EXAM EXTENDING TO ¾" V-178A.

REFERENCES:

BOVER & CRAIL ISOMETRICS:

RHR-851-13	REV 0
RHR-855-13	REV 4
RHR-851-13H	REV 0
RHR-855.1-3H	REV 3



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR(1)-2	14	STD	0.375	SA 106 GR B	CS	NA
12" RHR(1)-2	12	STD	0.375	SA 106 GR B	CS	NA
6" RHR(G)-2	6	40	0.280	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
J	11-6-80	REVISED AS NOTED	K.M.A	JFH	GAK
0	11-11-78	ISSUED FOR USE	K.M.A	JFH	GAK
A	5-26-78	ISSUED FOR INFORMATION ONLY	K.M.A	GAK	GAK

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.C.A. | DATE: 5-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP A SHUTDOWN COOLING RETURN & SUPPRESSION POOL SPRAY SUPPLY

DWG NO: RHR-201-11 | REV J

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14RHR(1)A-1	FLANGE TO PIPE	C-F	SUR	PTP-1				
14RHR(1)A-2	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)A-3	EL TO PIPE	C-F	SUR	PTP-1				
14RHR(1)A-4	PIPE TO REDUCER	C-F	SUR	PTP-1				
18RHR(1)A-1	REDUCER TO PIPE	C-F	SUR	PTP-1				
RHR-157(W)	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-157	SPRING HANGER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				4 WELDED LUGS
18RHR(1)A-2	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-3	EL TO PIPE	C-F	SUR	PTP-1				
RHR-159	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-158	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
RHR-160	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(1)A-4	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-5	EL TO PIPE	C-F	SUR	PTP-1				
RHR-161	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(1)A-6	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-7	EL TO PIPE	C-F	SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-162								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-163								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)A-8								
	PIPE TO TEE	C-F	SUR	PTP-1				
10RHR(1)A-1								
	TEE TO PIPE	C-F	SUR	PTP-1				
10RHR(1)A-2								
	PIPE TO CAP	C-F	SUR	PTP-1				
18RHR(1)A-8/6RHR(7)-2								
	BRANCH CONN	C-F	SUR	PTP-1				
18RHR(1)A-9								
	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-9/3/4CAP								
	CAPPED CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-9/3/4V-704A								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-10								
	PIPE TO VALVE	C-F	SUR	PTP-1				
RHR-V-31A-BLT								
	VALVE BOLTING	C-D	VT-1	QCS&I-002				
18RHR(1)A-11								
	VALVE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-11/1-1/2V-84A								
	CROSSTIE CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-12								
	PIPE TO VALVE	C-F	SUR	PTP-1				
RHR-V-110A-BLT								
	VALVE BOLTING	C-D	VT-1	QCS&I-002				
18RHR(1)A-13								
	VALVE TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(1)A-13/3V-72A								
	FLUSH CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-13PR1								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)A-13/3/4V-705A								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-13PR2								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)A-13PS(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
18RHR(1)A-13PS								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)A-14								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-15								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-16								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-17								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-18								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-19								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-20								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-21								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)A-22								
	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-22A								
	PIPE TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(1)A-23	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-24	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-25	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-26	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-27	PIPE TO VLV	C-F	SUR	PTP-1				
18RHR(1)A-28	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-29	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-30	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-31	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-32	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-33	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-34	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-35	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)A-36	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-37	PIPE TO REDUCER	C-F	SUR	PTP-1				
18RHR(1)A-37/5/4TE-N004A	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
20RHR(1)A-1	REDUCER TO PIPE	C-F	SUR	PTP-1				
20RHR(1)A-2	PIPE TO NOZZLE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RHR(7)A-1								
	WOL TO PIPE	C-F	SUR	PTP-1				
6RHR(7)A-1/3/4V-144A								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
6RHR(7)A-2								
	PIPE TO REDUCER	C-F	SUR	PTP-1				
6RHR(7)A-3								
	REDUCER TO PIPE	C-F	SUR	PTP-1				
RHR-187								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
6RHR(7)A-3/3/4V-145A								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
6RHR(7)A-4								
	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(7)A-5								
	EL TO ORIFICE	C-F	SUR	PTP-1				
18RHR(11)A-1								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-363								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-361								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-362(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-362								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(11)A-2								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(11)A-3								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(11)A-4								
	PIPE TO EL	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(11)A-5								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-360								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-359								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-358								
	RIGID GUIDE	C-E-2	VT-3	QCS&I-002				
RHR-357(W)								
	WELDED LUGS	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-357								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(11)A-5A								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(11)A-6								
	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(11)A-7								
	VALVE TO PIPE	C-F	SUR	PTP-1				
18RHR(11)A-8								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(11)A-9								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-354(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-354								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(11)A-10								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(11)A-11								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-355								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: SIM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-356								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(11)A-12								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(11)A-13								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(11)A-14								
	PIPE TO TEE	C-F	SUR	PTP-1				
20RHR(1)A-3								
	NOZZLE TO PIPE	C-F	SUR	PTP-1				
20RHR(1)A-4								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(1)A-5								
	EL TO PIPE	C-F	SUR	PTP-1				
20RHR(1)A-6								
	PIPE TO REDUCER	C-F	SUR	PTP-1				
18RHR(1)A-38								
	REDUCER TO PIPE	C-F	SUR	PTP-1				
RHR-367(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-367								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)A38/1-1/4CE-N001								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-38/4V-26A								
	BRANCH CONN	N/A	VT-2	QCS&I-002				IWC-2510
RHR-368								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(1)A-39								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-40								
	EL TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(1)A-40/3/4V-81-A								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-40/3/4V-75-A								
	SAMPLING CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-41								
	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(1)A-42								
	VALVE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-43								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-44								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-365(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-365								
	RIGID HANGER	C-E-2	VT-1	QCS&I-002				
RHR-366								
	RIGID HANGER	C-E-2	VT-1	QCS&I-002				
18RHR(1)A-45								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-46								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-47								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)A-48								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-264								
	SNUBBER	C-E-2	VT-3	QCS&I-002				4 WELDED LUGS
			VT-4	QCS&I-002				
RHR-263(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				
RHR-263								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)A-49								
	PIPE TO EL	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(1)A-50								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-266								
	RIGID GUIDE	C-E-2	VT-3	QCS&I-002				
18RHR(1)A-50/5/4TE-N027A								
	INST CONN	N/A	VT-2	QCS&I-002				
RHR-267								
	RIGID GUIDE	C-E-2	VT-3	QCS&I-002				
RHR-269								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-280								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)A-51								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-268								
	RIGID GUIDE	C-E-2	VT-3	QCS&I-002				
RHR-270								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-271								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-351								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)A-52								
	PIPE TO FLANGE	C-F	SUR	PTP-1				
18RHR(1)A-52/3/4V-706A								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-52/3/4V-707A								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)A-53								
	FLANGE TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(1)A-54								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)A-55								
	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-56								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-57								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-352								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-353								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(1)A-58								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)A-59								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-238								
	ANCHOR	C-E-2	VT-3	QCS&I-002				
18RHR(1)A-60								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-61								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-237								
	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
18RHR(1)A-62								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)A-63								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-234(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-234								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-235								
	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-236								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)A-64								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)A-65								
	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)A-66								
	PIPE TO REDUCER	C-F	SUR	PTP-1				
14RHR(1)A-5								
	TEE TO PIPE	C-F	SUR	PTP-1				
14RHR(1)A-6								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)A-7								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-350								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
14RHR(1)A-8								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)A-9								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-579								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14RHR(1)A-9A								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-233								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14RHR(1)A-9/3/4V-708								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
14RHR(1)A-9/3/4V-156A								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
14RHR(1)A-10								
	PIPE TO VALVE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14RHR(1)A-11								
	REDUCER TO PIPE	C-F	SUR	PTP-1				
RHR-239								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-240								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14RHR(1)A-12								
	PIPE TO EL	C-F	SUR	PTP-1				
			SUR	PTP-1				
14RHR(1)A-13								
	EL TO PIPE	C-F	SUR	PTP-1				
14RHR(1)A-14								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)A-15								
	EL TO PIPE	C-F	SUR	PTP-1				
14RHR(1)A-16								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)A-17								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)A-18								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)A-19								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-241(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-241								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-242								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
14RHR(1)A-20								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)A-21								
	EL TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

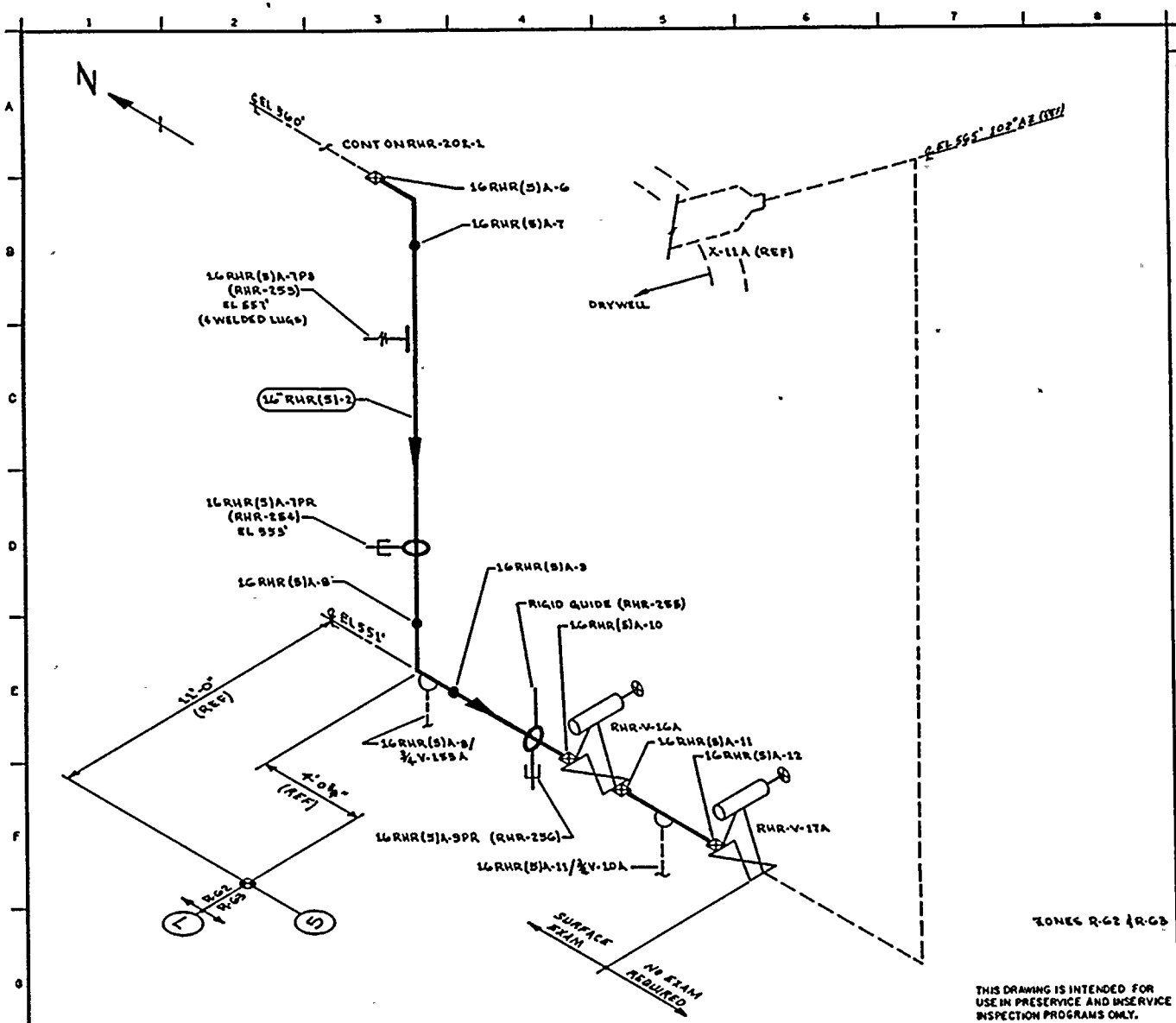
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14RHR(1)A-22								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)A-23								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-243								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14RHR(1)A-23/6RHR(6)A-2								
	BRANCH CONN	C-F	SUR	PTP-1				
14RHR(1)A-24								
	PIPE TO REDUCER	C-F	SUR	PTP-1				
12RHR(1)A-1A								
	REDUCER TO PIPE	C-F	SUR	PTP-1				
RHR-244								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
12RHR(1)A-2A								
	PIPE TO EL	C-F	SUR	PTP-1				
12RHR(1)A-3A								
	PIPE TO EL	C-F	SUR	PTP-1				
RHR-260								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-259(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				2 WELDED LUGS
RHR-259								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
12RHR(1)A-3A/3V-63A								
	FLUSH CONN	N/A	VT-2	QCS&I-002				IWC-2510
12RHR(1)A-3A/3V-160A								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
RHR-261								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
12RHR(1)A-3B								
	PIPE TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RHR(1)A-4A	PIPE TO VALVE	C-F	SUR	PTP-1				
6RHR(6)A-1	WOL TO PIPE	C-F	SUR	PTP-1				
6RHR(6)A-2	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(6)A-3	EL TO PIPE	C-F	SUR	PTP-1				
6RHR(6)A-4	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(6)A-5	EL TO PIPE	C-F	SUR	PTP-1				
RHR-246	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
RHR-245(W)	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-245	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
6RHR(6)A-5A	PIPE TO PIPE	C-F	SUR	PTP-1				
6RHR(6)A-6	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(6)A-7	EL TO PIPE	C-F	SUR	PTP-1				
6RHR(6)A-8	PIPE TO VALVE	C-F	SUR	PTP-1				
RHR-V-27A/3/4LOC	STEM LEAKOFF	N/A	VT-2	QCS&I-002				IWC-2510
RHR-PB-201	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510

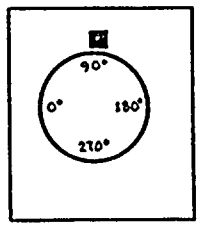


NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-8SB-1.4	REV 2
RHR-8SB-1.6	REV 1
RHR-8SB-1.6H	REV 0
RHR-8SB-3.6H	REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" RHR(B)-2	16	40	0.500	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-17-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.L.A. | DATE: 5-12-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
DRYWELL SPRAY SUPPLY

DWG NO: RHR-202-2 | REV 0

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 16RHR(5)-2
DESCRIPTION: DRYWELL SPRAY SUP"A"

DATE 11/13/80

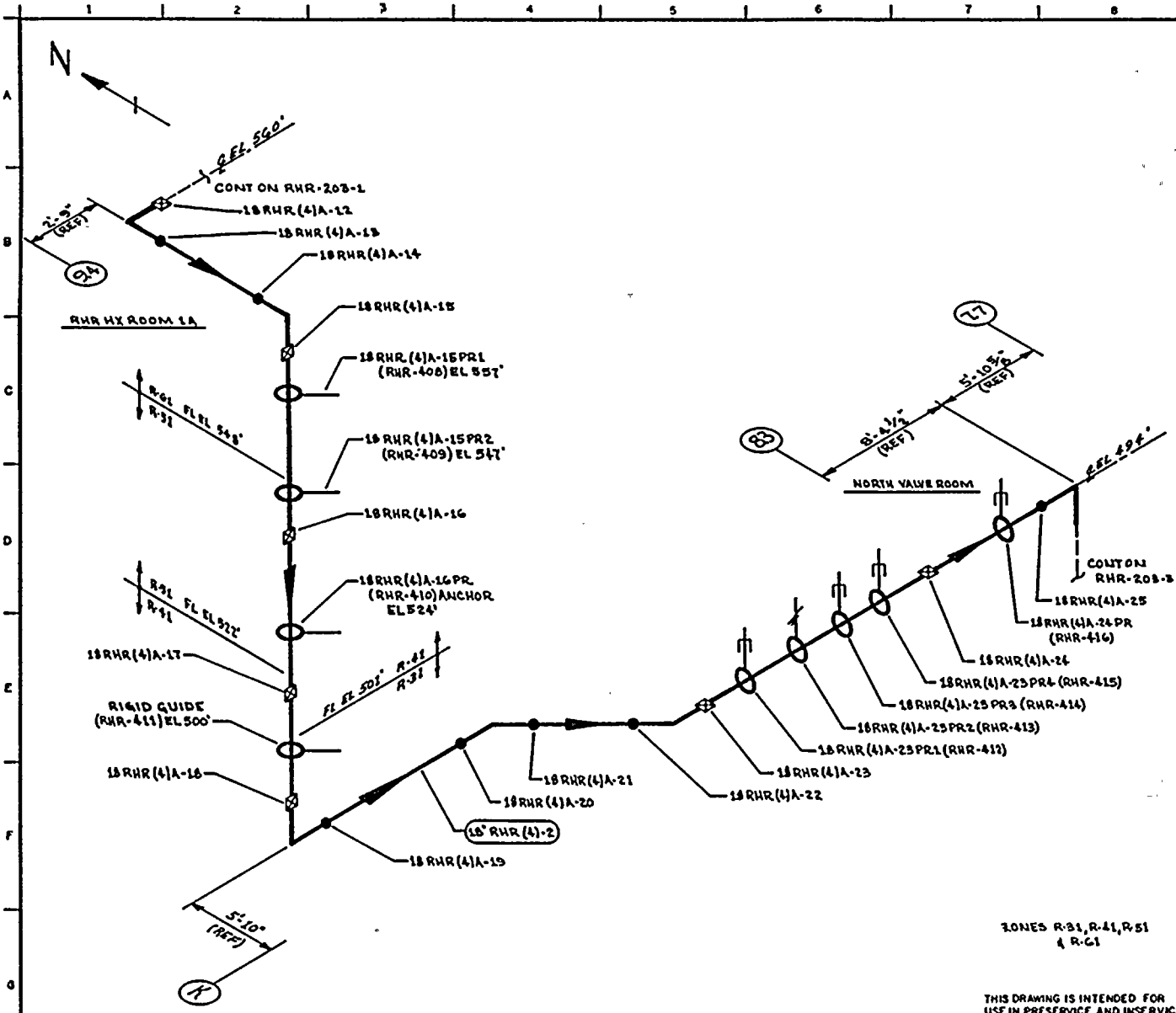
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
16RHR(5)A-1								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-248								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RHR(5)A-2								
	PIPE TO EL	C-F	SUR	PTP-1				
16RHR(5)A-3								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-249								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
16RHR(5)A-4								
	PIPE TO EL	C-F	SUR	PTP-1				
16RHR(5)A-5								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-250(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-250								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-251								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-252								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RHR(5)A-6								
	PIPE TO EL	C-F	SUR	PTP-1				
16RHR(5)A-7								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-253(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-253								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-254								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 16RHR(5)-2
DESCRIPTION: DRYWELL SPRAY SUP"A"

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
16RHR(5)A-8								
	PIPE TO EL	C-F	SUR	PTP-1				
16RHR(5)A-8/3/4V-153A								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
16RHR(5)A-9								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-255								
	RIGID GUIDE	C-E-2	VT-3	QCS&I-002				
RHR-256								
	RIGID GUIDE	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RHR(5)A-10								
	PIPE TO VALVE	C-F	SUR	PTP-1				
16RHR(5)A-11								
	VALVE TO PIPE	C-F	SUR	PTP-1				
16RHR(5)A-11/3/4V-10A								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
16RHR(5)A-12								
	PIPE TO VALVE	C-F	SUR	PTP-1				
RHR-PB-202								
	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510

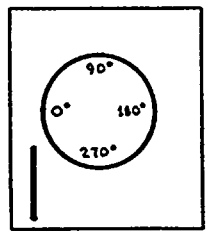


NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-854-1.5	REV 1
RHR-854-G-11	REV 1
RHR-854-1.5H	REV 0
RHR-854-G-11H	REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (4)-2	18	STD	0.438	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE	KHcA	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	KHcA	MLK	RLR

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: GA KUGLER | DRAWN: KHcA | DATE: 5-15-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP A TEST LINE

DWG NO: RHR-203-2 | REV 0

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(4)A-1								
	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(4)A-2								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)A-3								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-262								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-277								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-278								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(4)A-4								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-279								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-276(W)								
	8 WELDED LUGS	C-E-1	SUR	PTP-1				
RHR-276								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-274								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-275								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)A-4A								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(4)A-4B								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-272								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-273								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)A-6								
	PIPE TO EL	C-F	SUR	PTP-1				
RHR-265(W)								
	1 WELDED LUG	C-E-1	SUR	PTP-1				
RHR-265								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)A-7								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(4)A-8								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)A-9								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(4)A-10								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)A-11								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-369								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-406(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-406								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-405								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-407								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)A-12								
	PIPE TO EL	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
18RHR(4)A-13								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(4)A-14								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)A-15								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-408								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-409								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(4)A-16								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-416								
	ANCHOR	C-E-2	VT-3	QCS&I-002				
18RHR(4)A-17								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-411								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(4)A-18								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)A-19								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(4)A-20								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)A-21								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(4)A-22								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)A-23								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-412								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-413								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

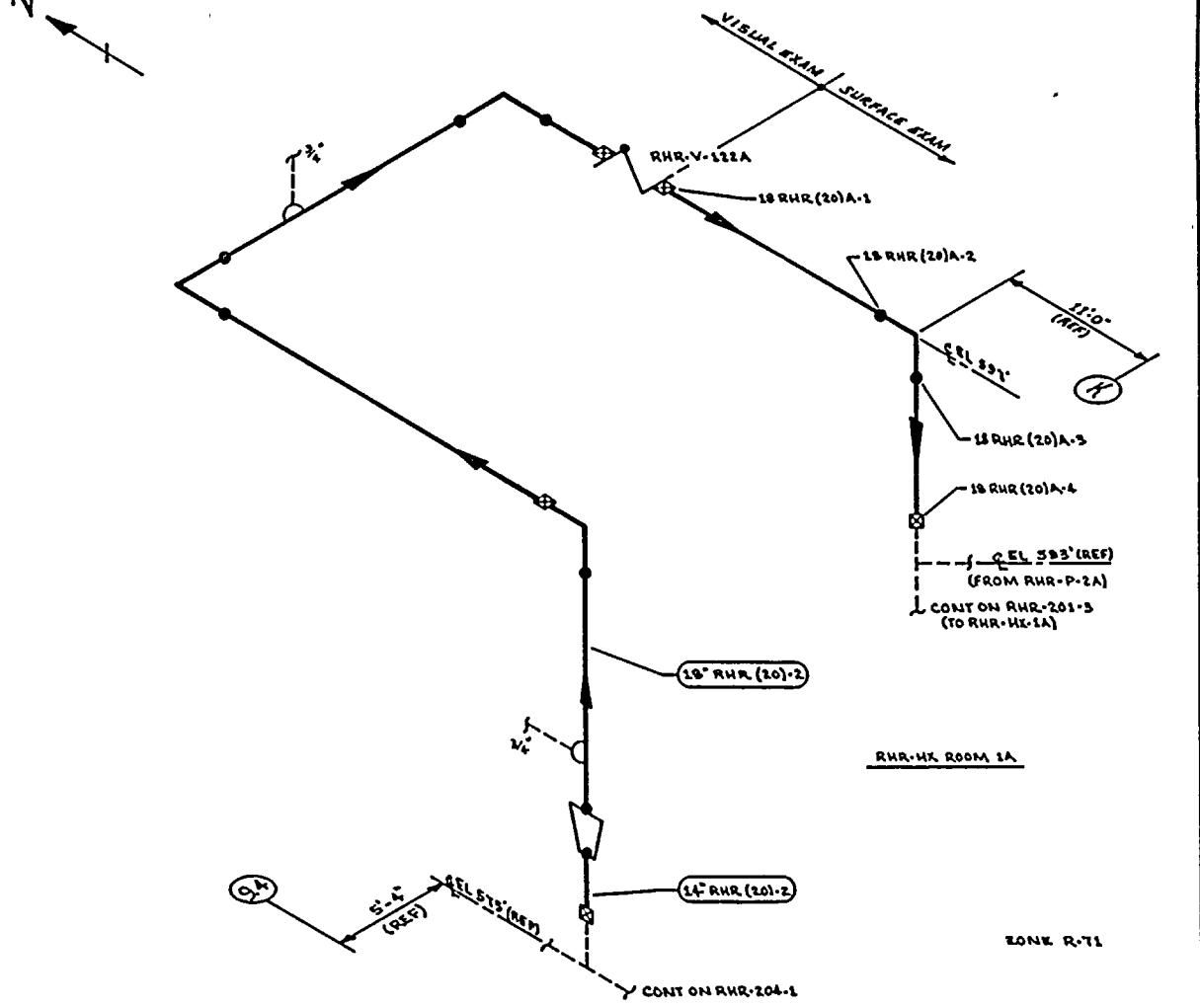
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-414								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-415								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)A-24								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-416								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)A-25								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)A-26								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-420(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
18RHR(4)A-27								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-417								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)A-27A								
	PIPE TO FLANGE	C-F	SUR	PTP-1				
18RHR(4)A-27B								
	FLANGE TO PIPE	C-F	SUR	PTP-1				
RHR-418								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)A-28								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)A-29								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-419								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(4)A-29/1RV-25A	THERMAL RELIEF	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(4)A-29/3/4V-129A	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(4)A-30	PIPE TO VALVE	C-F	SUR	PTP-1				
RHR-PB-203	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510

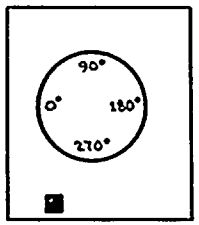


NOTES:

1. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

BOVER & CRAIL ISOMETRIC
RHR-BGT-28.30 REV 2



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: KHL DATE: 5-16-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (20)-2	14	STD	0.375	SA 106 GR B	CS	NA
18" RHR (20)-2	18	30	0.438	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-15-78	ISSUED FOR USE	KHL	RSP	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	KHL	RSP	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
RCIC STEAM SUPPLY TO RHR-HX-1A

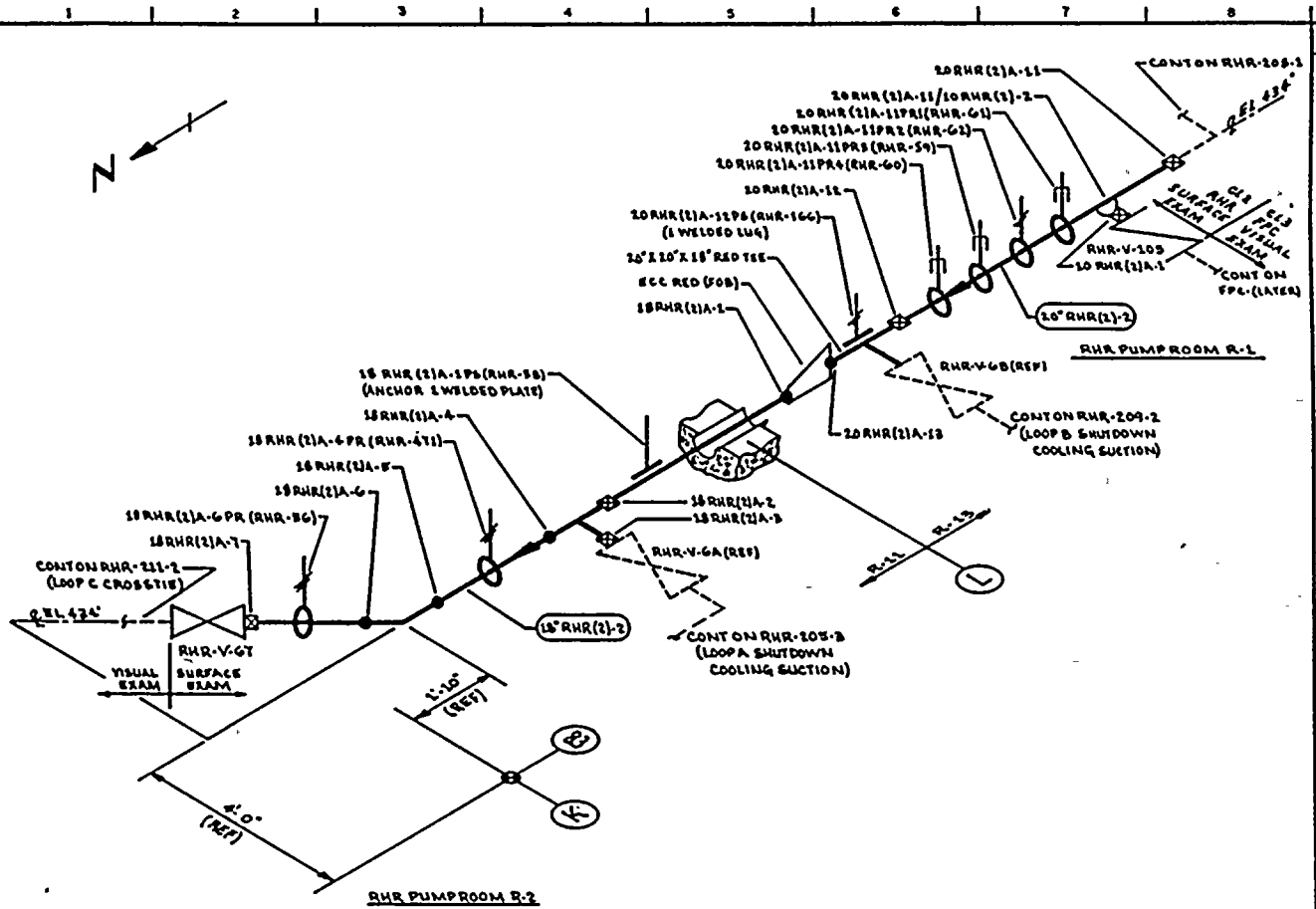
DWG NO: RHR-204-2 REV 0

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(20)2
DESCRIPTION: RCIC STM-RHR HX-1A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(20)A-1	VALVE TO PIPE	C-F	SUR	PTP-1				
18RHR(20)A-2	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(20)A-3	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(20)A-4	PIPE TO TEE	C-F	SUR	PTP-1				
RHR-PB-204	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510

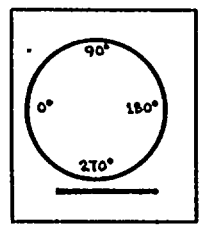


NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-875-6-B	REV 2
RHR-875-6-BH	REV 1
RHR-875-13-16H	REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR(2)-2	20	STD	0.375	SA 106 GR B	CS	NA
18" RHR(2)-2	18	STD	0.375	SA 106 GR B	CS	NA
10" RHR(2)-2	10	STD	0.365	SA 234 GR WPB (WOL MATL)	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12.28.78	ISSUED FOR USE	V.M.A	[illegible]	[illegible]
A	9.12.78	ISSUED FOR INFORMATION ONLY	V.M.A	MAK	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

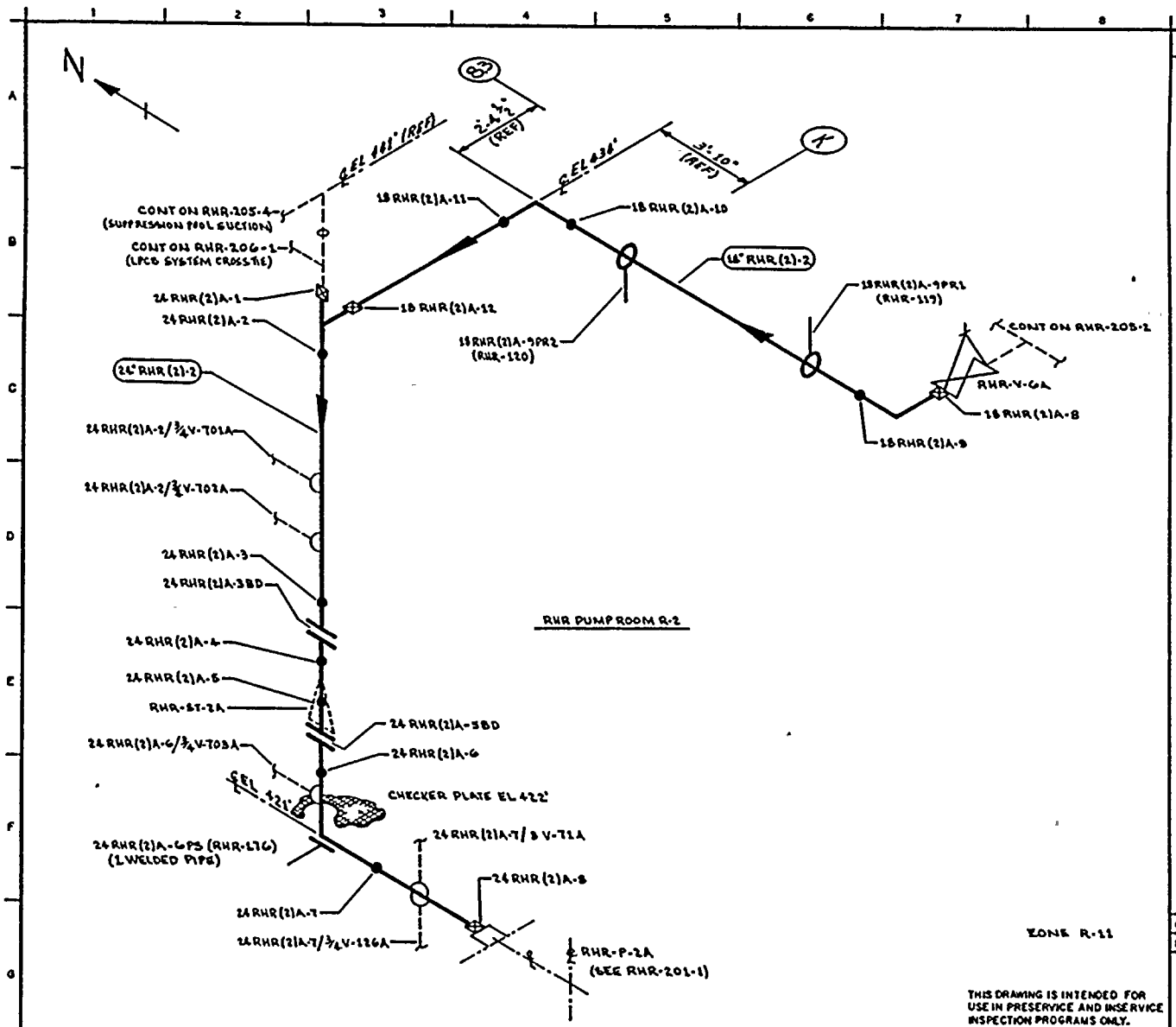
ENGR: G.A. KUGLER | DRAWN: V.M.A | DATE: 5-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR SHUTDOWN COOLING SUCTION & FPC INTERTIE

DWG NO: RHR-205-2 | REV 0



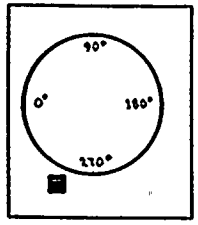
NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-B75-13.16 REV 2

RHR-B75-13.16H REV 0



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18"RHR(2)-2	18	STD	0.375	SA 106 GR B	CS	NA
24"RHR(2)-2	24	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-15-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K-M-C-A | DATE: 5-19-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP A SHUTDOWN COOLING SUCTION

DWG NO: RHR-205-3 | REV 0

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RHR(2)A-1								
	VALVE TO EL	C-F	SUR	PTP-1				
20RHR(2)A-1/3/4V-730								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
20RHR(2)A-1/3/4V-166								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
20RHR(2)A-1/3V-7								
	FLUSH CONN	N/A	VT-2	QCS&I-002				IWC-2510
20RHR(2)A-1/1RV-5								
	RELIEF CONN	N/A	VT-2	QCS&I-002				IWC-2510
20RHR(2)A-2								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-75(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-75								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)A-2A								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-74								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-73								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-77(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-77								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)A-3								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-71								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-72								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RHR(2)A-4								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-76(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-76								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-69								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-70								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)A-5								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-67								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-68								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)A-6								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(2)A-7								
	EL TO PIPE	C-F	SUR	PTP-1				
20RHR(2)A-8								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(2)A-9								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-64								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-65								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-66								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-63(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-63								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)A-10								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(2)A-11								
	EL TO PIPE	C-F	SUR	PTP-1				
20RHR(2)A-11/10RHR(2)A-2								
	PIPE TO WOL	C-F	SUR	PTP-1				
10RHR(2)A-1								
	WOL TO PIPE	C-F	SUR	PTP-1				
RHR-61								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-62								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-59								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-60								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(2)A-12								
	PIPE TO TEE	C-F	SUR	PTP-1				
RHR-166(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				1 WELDED LUG
RHR-166								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RHR(2)A-13								
	TEE TO REDUCER	C-F	SUR	PTP-1				
18RHR(2)A-1								
	REDUCER TO PIPE	C-F	SUR	PTP-1				
RHR-58								
	ANCHOR	C-E-1	SUR	PTP-1				1 WELDED PLATE
18RHR(2)A-2								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(2)A-3								
	TEE TO VALVE	C-F	SUR	PTP-1				
18RHR(2)A-4								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-471								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(2)A-5								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(2)A-6								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-56								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(2)A-7								
	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(2)A-8								
	VALVE TO EL	C-F	SUR	PTP-1				
18RHR(2)A-9								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-119								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-120								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(2)A-10								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(2)A-11								
	EL TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(2)A-12	PIPE TO TEE	C-F	SUR	PTP-1				
24RHR(2)A-1	TEE TO TEE	C-F	SUR	PTP-1				
24RHR(2)A-2	TEE TO PIPE	C-F	SUR	PTP-1				
24RHR(2)A-/3/4V-701A	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(2)A-/3/4V-702A	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(2)A-3	PIPE TO FLANGE	C-F	SUR	PTP-1				
24RHR(2)A-4	FLANGE TO PIPE	C-F	SUR	PTP-1				
24RHR(2)A-5	PIPE TO FLANGE	C-F	SUR	PTP-1				
24RHR(2)A-6	FLANGE TO EL	C-F	SUR	PTP-1				
24RHR(2)A-6/3/4V-703A	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
RHR-176(W)	WELDED SUPPORT	C-E-1	SUR	PTP-1				1 WELDED PIPE
RHR-176	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
24RHR(2)A-7	EL TO PIPE	C-F	SUR	PTP-1				
24RHR(2)A-7/3V-71A	FLUSH CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(2)A-7/3/4V-126A	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(2)A-8	PIPE TO PUMP	C-F	SUR	PTP-1				
RHR-V-4A/3/4V-167A	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(3)A-1	VALVE TO PIPE	C-F	SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 24RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

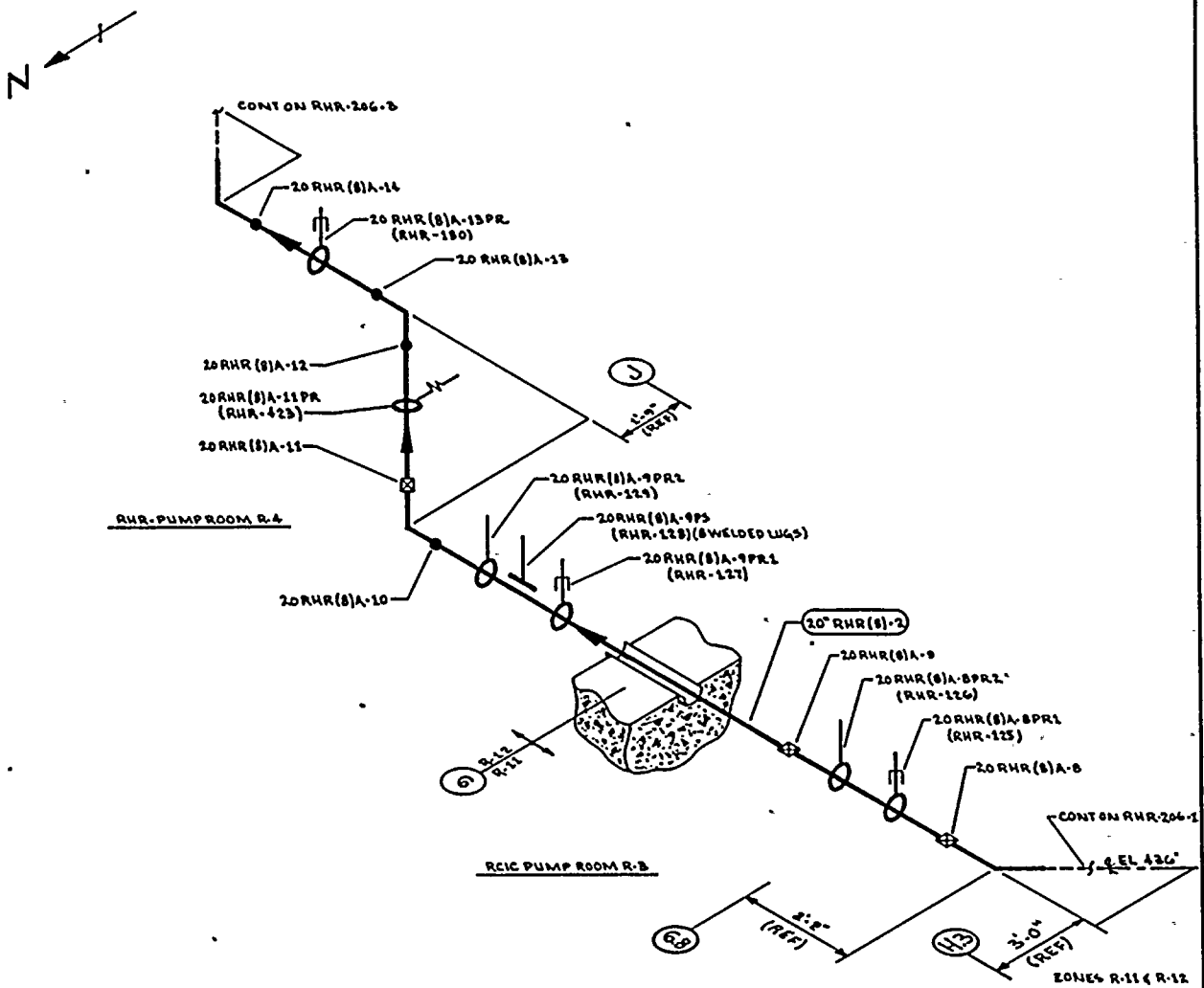
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RHR(3)A-1/3/3RV-88A	RELIEF CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(3)A-1/3/4RV-88A	BRANCH CONN	C-F	SUR	PTP-1				
24RHR(3)A-2	PIPE TO EL	C-F	SUR	PTP-1				
24RHR(3)A-3	EL TO PIPE	C-F	SUR	PTP-1				
RHR-138(W)	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-138	SPRING HANGER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
RHR-136(W)	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-136	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
RHR-137	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
24RHR(3)A-4	PIPE TO EL	C-F	SUR	PTP-1				
24RHR(3)A-5	EL TO PIPE	C-F	SUR	PTP-1				
RHR-135	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
24RHR(3)A-6	PIPE TO EL	C-F	SUR	PTP-1				
24RHR(3)A-7	EL TO EL	C-F	SUR	PTP-1				
24RHR(3)A-10	EL TO TEE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 24RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-PB-205	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510



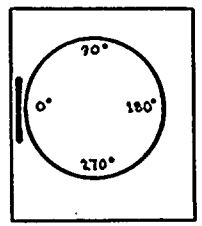
NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRIC

RHR-881-8.13 REV 1

RHR-881-8.13H REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR (8)-2	20	STD	0.375	SA 106 GR B	C6	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-12-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR. QA K. KUGLER | DRAWN: K. McA. | DATE: 5-22-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

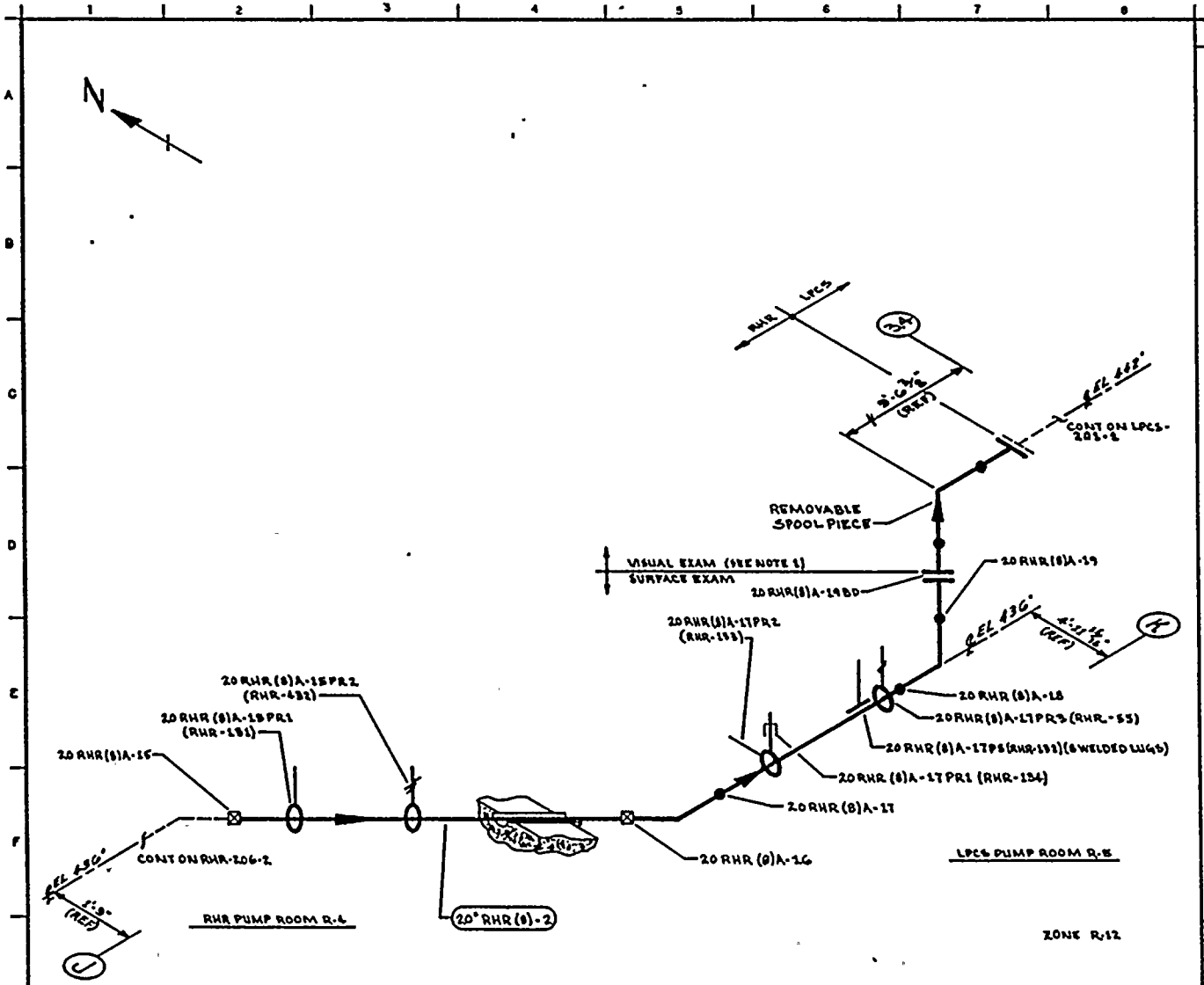
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR-LPCS CROSSTIE

DWG NO: RHR-206-2 | REV 0

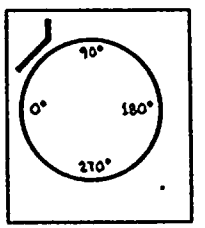


NOTES:

1. SPOOL PIECE REMOVED DURING NORMAL OPERATION. BLANKED FLANGE IS THE LIMIT OF CLASS 2 PRESSURE BOUNDARY. NO EXAMS REQUIRED OF SPOOL PIECE ITSELF, AS IT IS USED FOR PREOPERATIONAL TESTING ONLY.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-881-B.13 REV 1
RHR-881-B.13H REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR (S)-2	20	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	7-27-79	CHANGED REMOVABLE SPOOL PIECE TO VISUAL ONLY. ADDED NOTE 1.	KWL	[illegible]	[illegible]
0	11-15-77	ISSUED FOR USE	KWL	[illegible]	[illegible]
A	9-12-76	ISSUED FOR INFORMATION ONLY	KWL	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: W.M.C.A. | DATE: 5-22-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR-LPCS CROSSTIE

DWG NO: RHR-206-S | REV 1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(8)-2
DESCRIPTION: RHR-LPCS CROSSTIE

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RHR(8)A-1								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-121(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-121								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(8)A-2								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(8)A-3								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-122								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
20RHR(8)A-3A								
	PIPE TO PIPE	C-F	SUR	PTP-1				
20RHR(8)A-4								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-123								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-124								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(8)A-5								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(8)A-6								
	EL TO PIPE	C-F	SUR	PTP-1				
20RHR(8)A-7								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(8)A-8								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-125								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-126								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(8)-2
DESCRIPTION: RHR-LPCS CROSSTIE

DATE 11/13/80

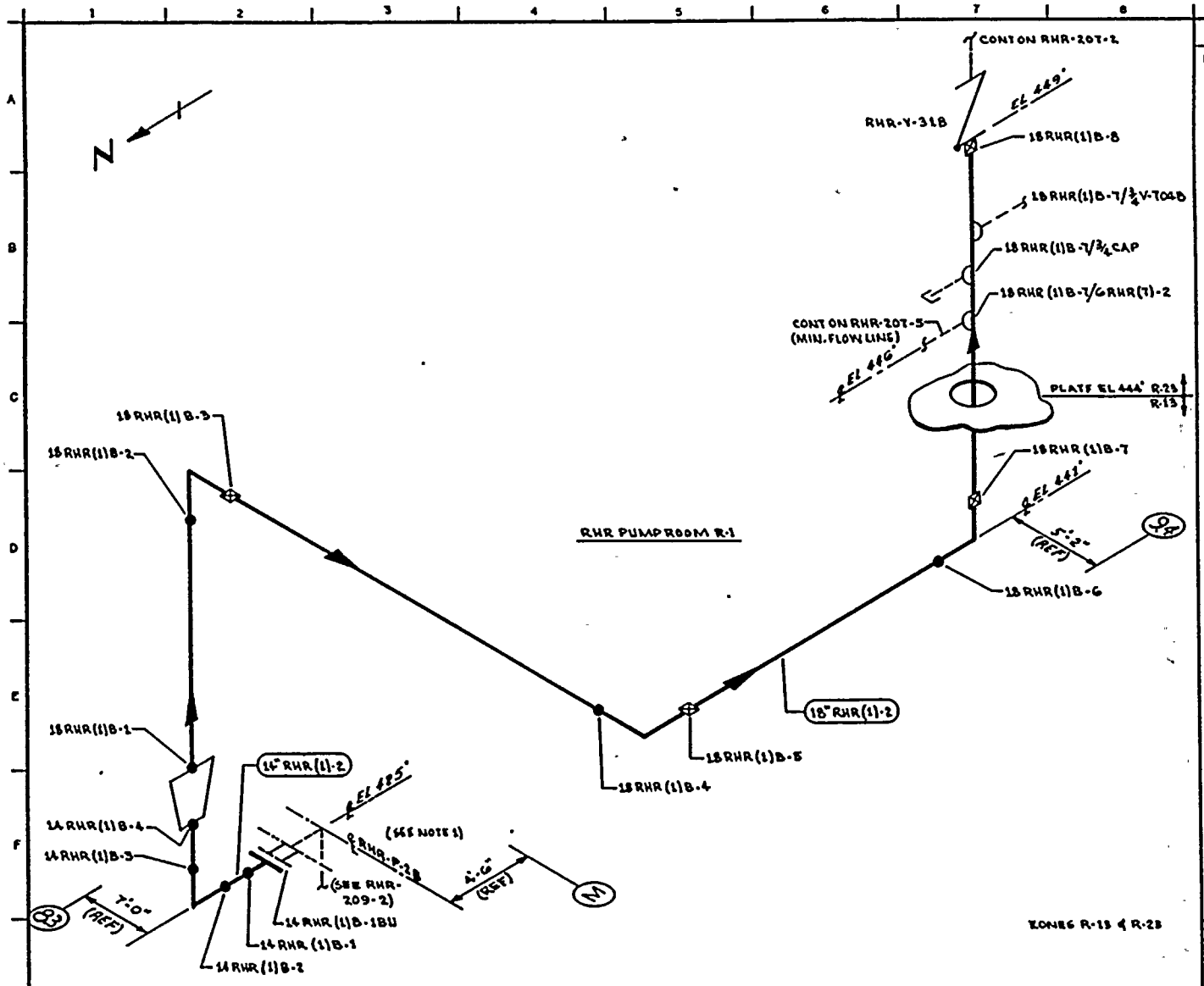
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RHR(8)A-9								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-127								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-128(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-128								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-129								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
20RHR(8)A-10								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(8)A-11								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-423								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(8)A-12								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(8)A-13								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-130								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(8)A-14								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(8)A-15								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-131								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-432								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(8)A-16								
	PIPE TO EL	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 20RHR(8)-2
DESCRIPTION: RHR-LPCS CROSSTIE

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RHR(8)A-17								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-134								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-133								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-132(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-132								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-55								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
20RHR(8)A-18								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(8)A-19								
	EL TO FLANGE	C-F	SUR	PTP-1				
RHR-PB-206								
	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510



NOTES:

1. EXTEND VISUAL LEAKAGE EXAM OF RHR-PUMP-2B VENTS & DRAINS TO OUTERMOST NORMALLY CLOSED VALVE.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-898-1.4 REV 3

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: GA KUGLER	DRAWN: K.McA
DATE: 6-5-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

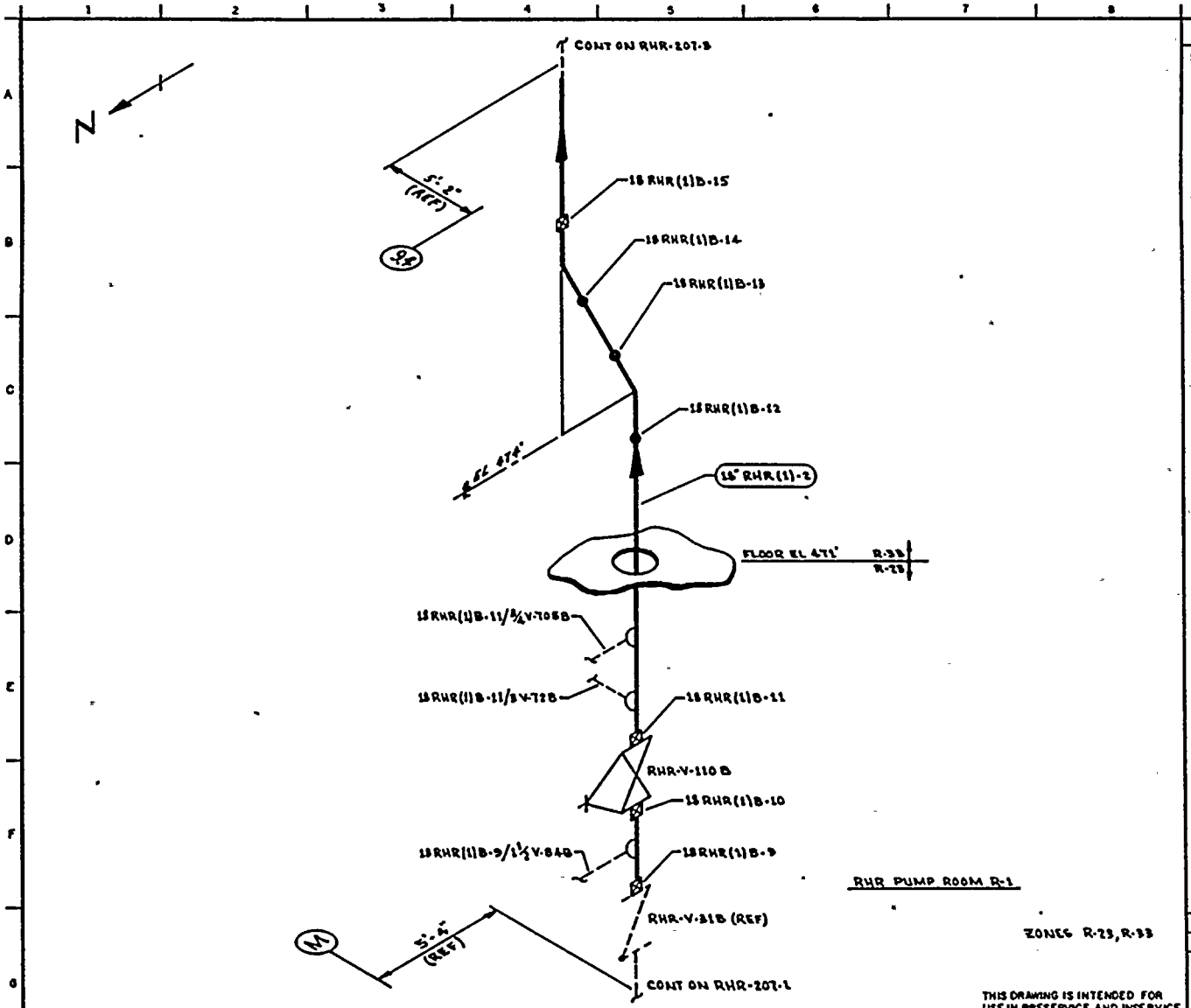
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR(1)-2	14	STD	0.375	SA 106 GR B	CS	NA
18" RHR(1)-2	18	30	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY TO RHR-HX-1B

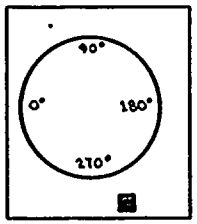
DWG NO: RHR-207-1 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-11-77	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-1278	ISSUED FOR INFORMATION ONLY	K.McA	GAK	DLB



NOTES:

REFERENCES:
BOVEE & CRAIL ISOMETRIC
RHR-B9B-5.8 REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: GA KUGLER	DRAWN: V. McA.	DATE: 6-5-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

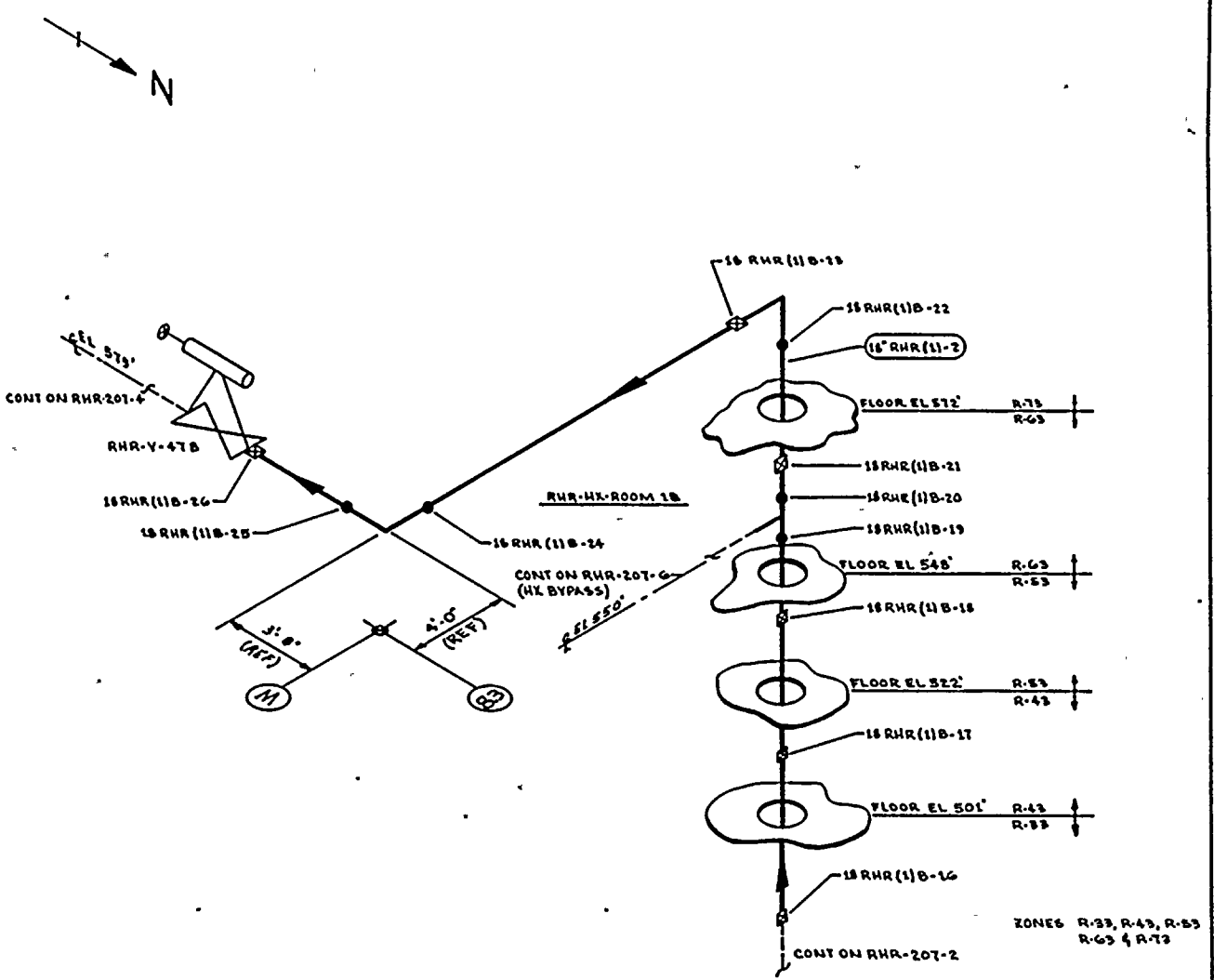
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18"RHR(1)-2	18	20	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY TO RHR-HX-1B

DWG NO: RHR-207-2 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-15-77	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
1	4-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

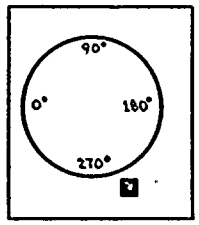


NOTES:

REFERENCES

BOVEE & CRAIL ISOMETRICS

RHR-898-5.8 REV 0
RHR-898-9.14 REV 3



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	20	0.438	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-22-78	ISSUED FOR USE			
A	9-11-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 2

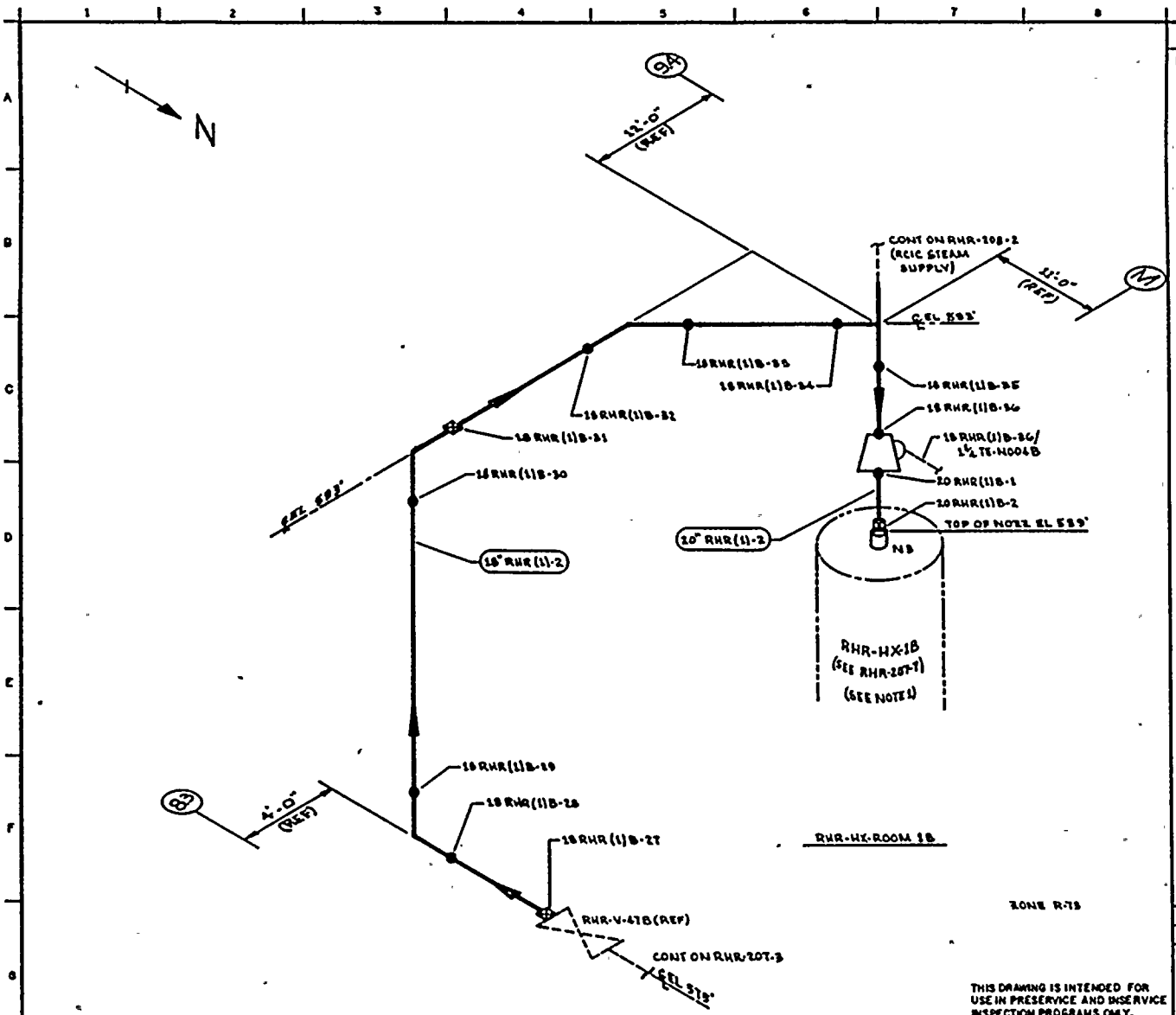
ENGR: G.A. KUGLER | DRAWN: K.M.A | DATE: 6-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY TO RHR-HX-1B

DWG NO: RHR-207-3 | REV 0

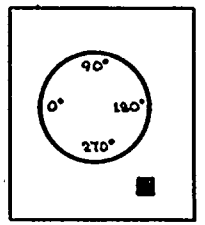


NOTES:

1. EXTEND VISUAL LEAKAGE EXAM OF RHR-HX-1B VENTS & DRAINS THROUGH OUTERMOST NORMALLY CLOSED ISOLATION VALVE, RELIEF VALVE OR TRANSITION TO INSTRUMENT TUBING.

REFERENCES:

BOVEE & CRAIL ISOMETRIC RHR-898-9.14 REV 3



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K.M.A. DATE: 6-6-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR(1)-2	18	30	0.438	SA 106 GR B	CS	NA
20" RHR(1)-2	20	30	0.500	SA 106 GR B	CS	NA

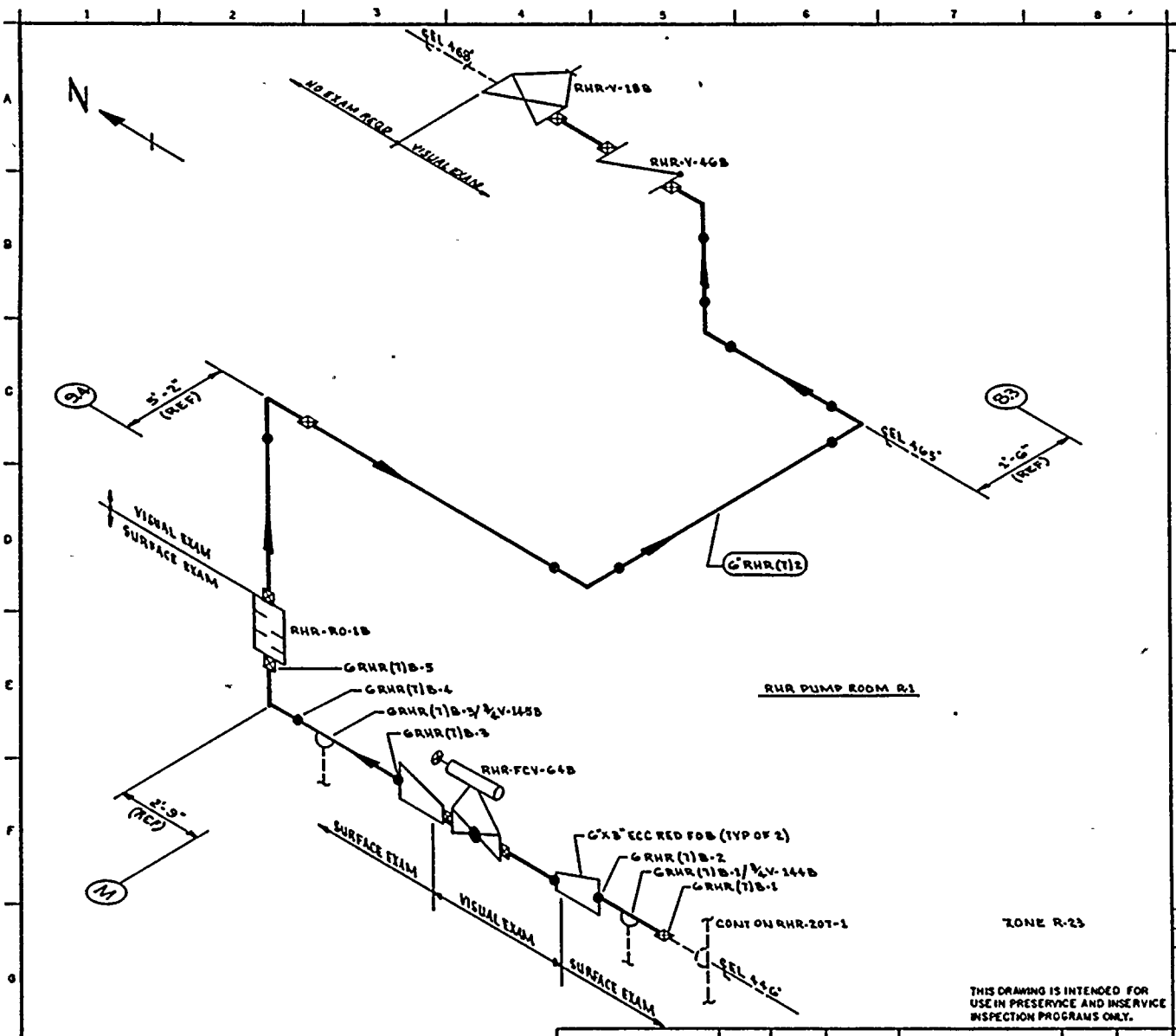
NO	DATE	REVISION	BY	CHKD	APPVD
0	11-22-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-11-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY TO RHR-HX-1B

DWG NO: RHR-207-4 REV 0



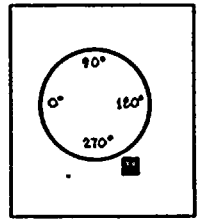
NOTES:

1. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS THAT ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-B9B-36.38 REV 4
RHR-B9B-39.40 REV 3



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RHR (T)-2	6	40	0.280	SA 106 GRB	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-19-79	ISSUED FOR USE	KHL	[illegible]	[illegible]
1	9-13-78	ISSUED FOR INFORMATION ONLY	KHL	[illegible]	[illegible]

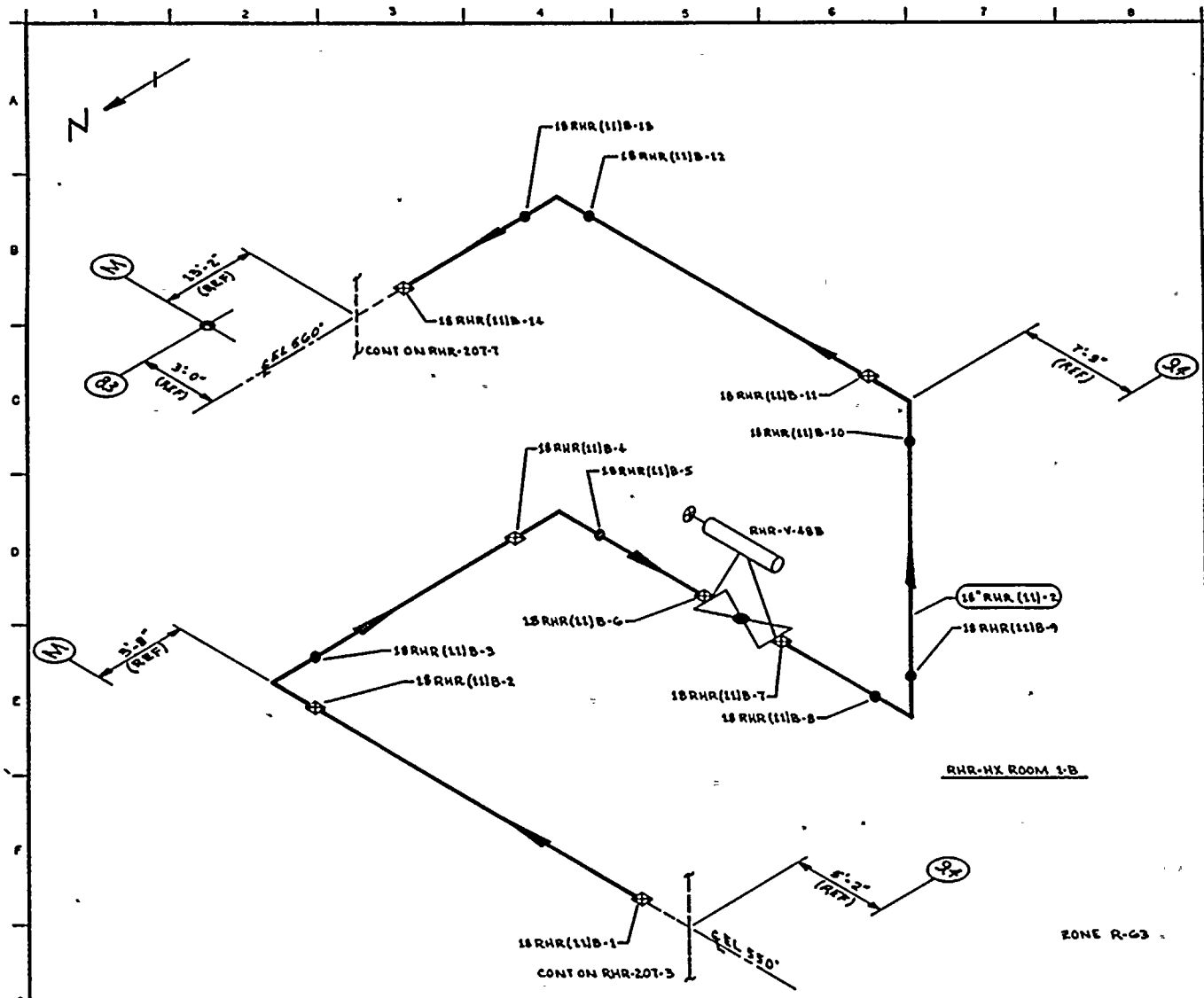
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: G.A. KUGLER | DRAWN: V. McA | DATE: 6-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

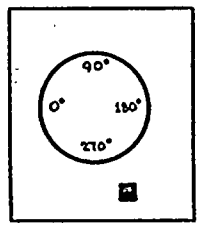
TITLE:
RHR LOOP B
MINIMUM FLOW LINE TO SUPPRESSION POOL

DWG NO: RHR-207-B | REV 0



NOTES:

REFERENCES:
BOVEE & CRAIL ISOMETRIC
RHR-900-1.5 REV 1



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: GA KUGLER / DRAWN: K.McA	DATE: 6-7-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

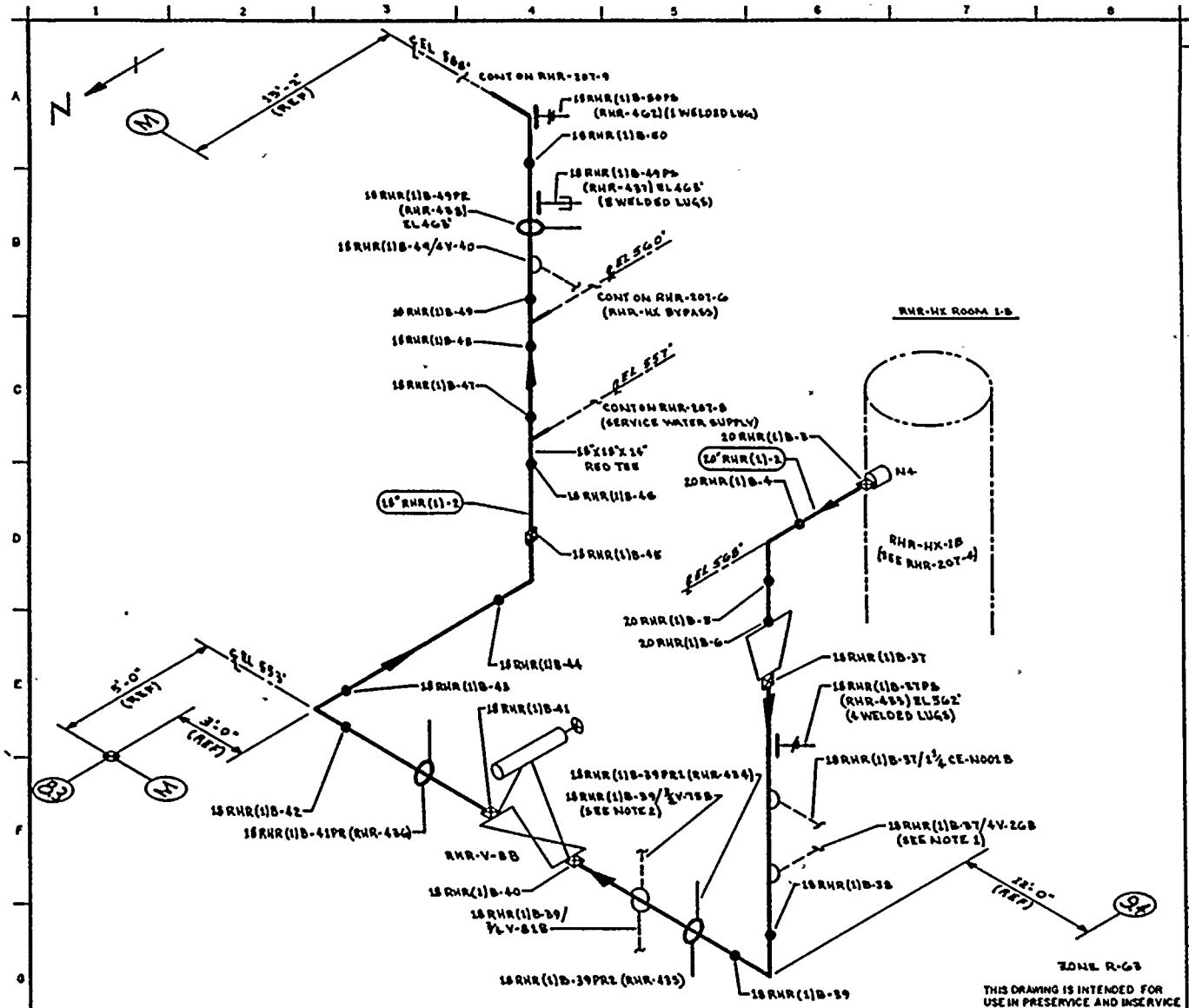
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18"RHR(11)-2	18	30	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
RHR HEAT EXCHANGER BYPASS

DWG NO: RHR-207-6 REV 0

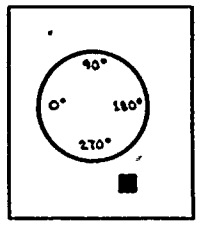
NO	DATE	REVISION	BY	CHKD	APPVD
0	11-15-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-11-78	ISSUED FOR INFORMATION ONLY	KMcA	GAK	DGR



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:
1. TERMINATE VISUAL EXAM AT V-26B, V-11B & V-150B.
2. THIS IS A 1½" WOL WITH ¾" BRANCH PIPE. EXTEND VISUAL EXAM TO ¾"V-75B.

REFERENCES:
BOVEE & CRAIL ISOMETRICS
RHR-899-14 REV 3
RHR-899-14H REV 0



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK.	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	NA
20" RHR (1)-2	20	30	0.500	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-15-78	ISSUED FOR USE	KMA	[illegible]	[illegible]
1	9-12-78	ISSUED FOR INFORMATION ONLY	KMA	JAK	QAP

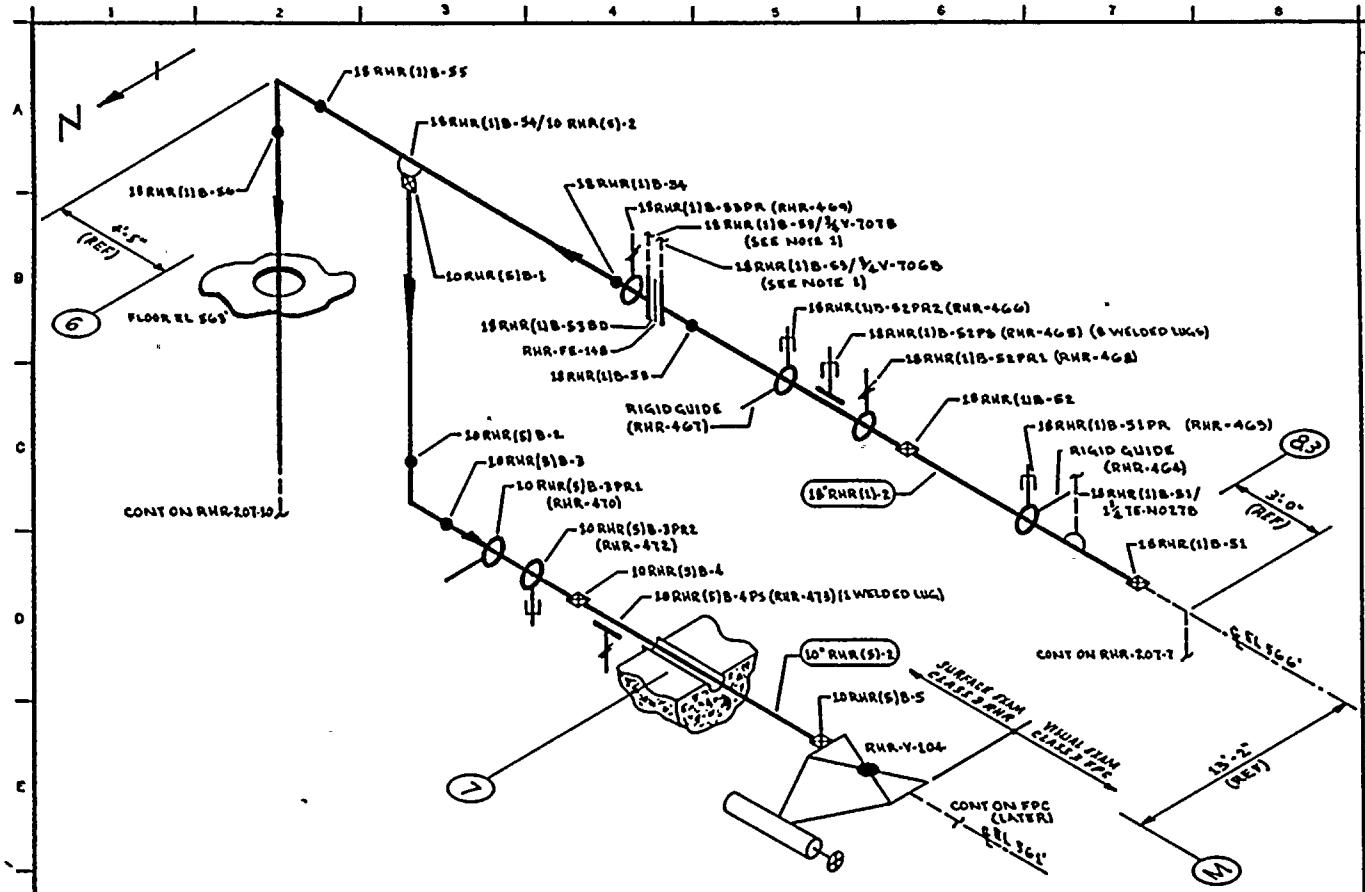
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: G.A. KUGLER | DRAWN: K. M. A. | DATE: 6-7-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY FROM RHR-HX-1B

DWG NO: RHR-207-7 | REV 0



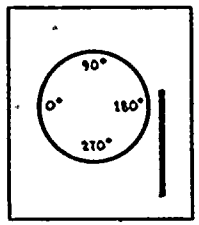
NOTES:

1. THESE ARE ½" CONNECTIONS WITH VISUAL EXAM EXTENDING TO ¾V-706B, ¾V-707B, ¾V-728B & ¾V-729B.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-899-5.7 REV 2
RHR-899-36.37 REV 0
RHR-899-5.7H REV 0
RHR-899-36.37H REV 0



KEY PLAN

ZONES R-G8

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)2	18	30	0.438	SA 106 GR B	CS	NA
10"RHR (S)-2	10	40	0.365	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12/22/78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	5-11-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

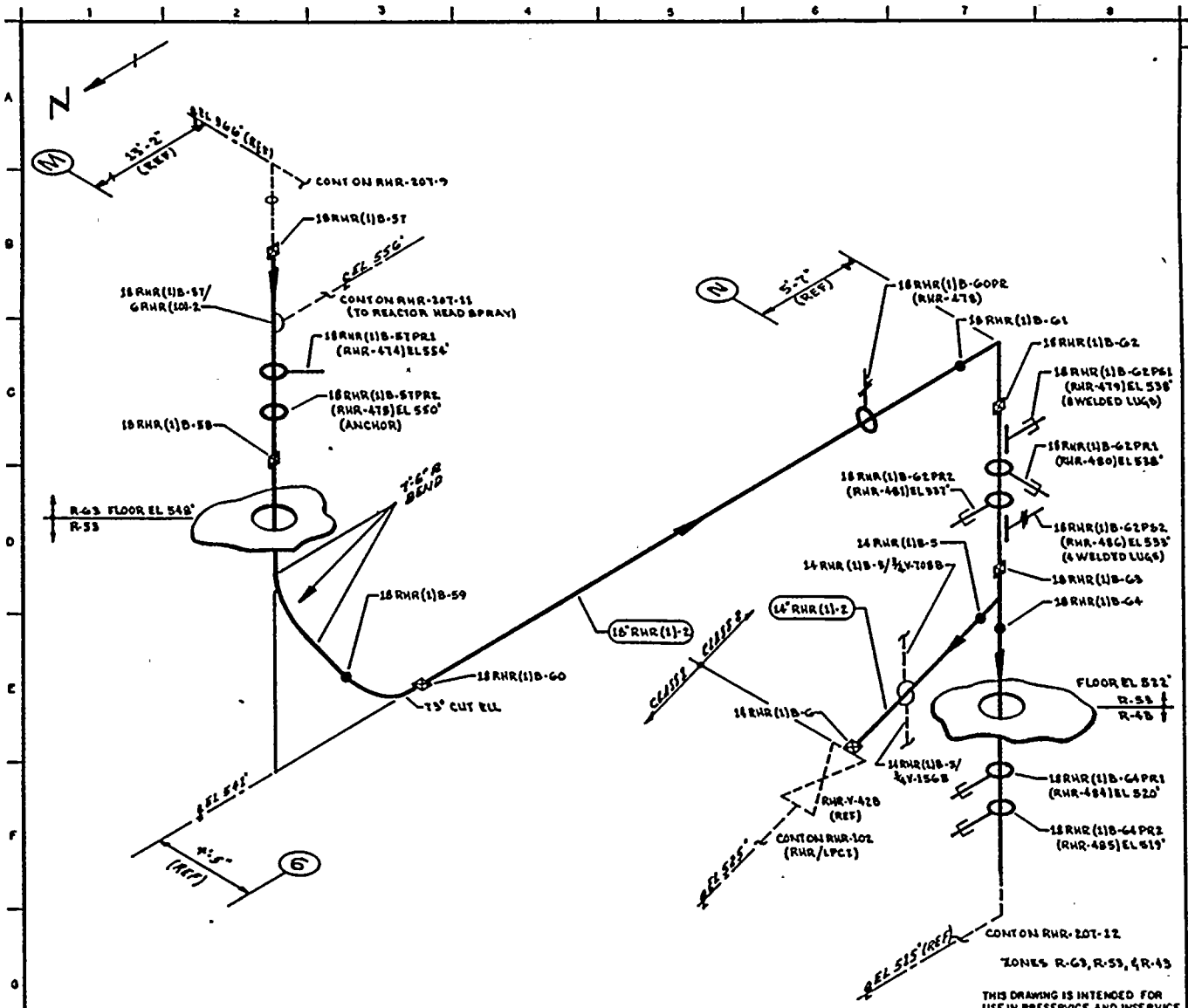
ENGR: G.A. KUGLER | DRAWN: K.M.A. | DATE: 6-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP B SUPPLY FROM RHR-HX-1B & FPC INTERTIE

DWG NO: RHR-207-9 | REV 0



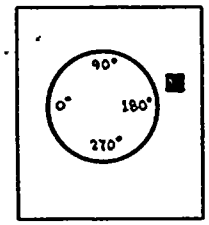
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-899-8.11	REV 1
RHR-899-12.17	REV 2
RHR-899-8.11H	REV 0
RHR-899-12.17H	REV 0
RHR-899-5.7H	REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: GA KUGLER	DRAWN: K.M.A.	DATE: 6-12-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

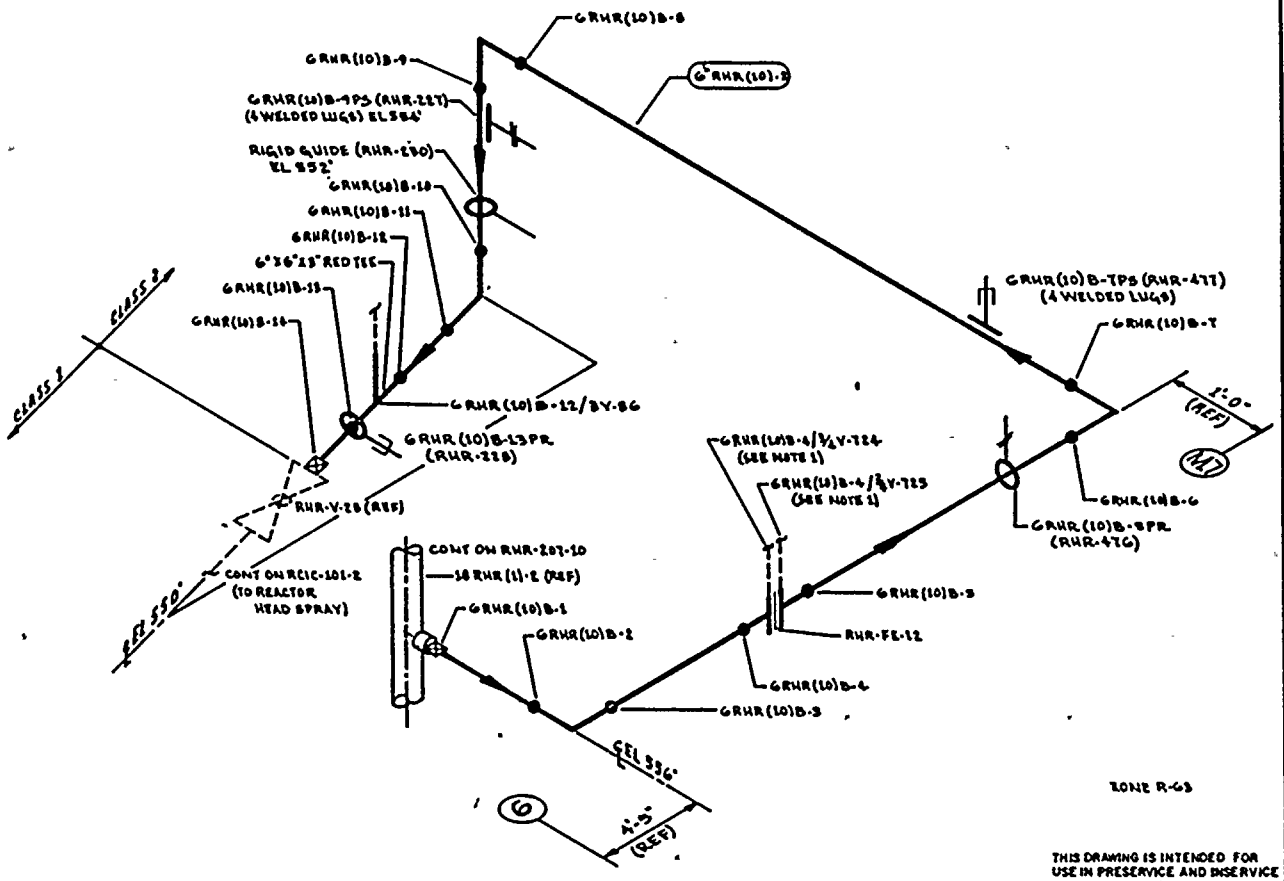
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18"RHR(1)-2	18	80	0.438	SA 106 GR B	CS	NA
16"RHR(1)-2	14	STD	0.375	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY FROM RHR-HX-1B

DWG NO: RHR-207-10 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-28-79	ISSUED FOR USE	K.M.A.	RKG	GAK
A	9-15-78	ISSUED FOR INFORMATION ONLY	K.M.A.	RAK	GAK



NOTES:

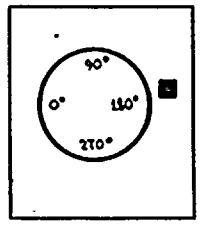
1. THESE ARE ½" CONNECTIONS WITH VISUAL EXAM EXTENDING TO ¾V-724 & ¾V-725.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-745-1.2 REV 2

RHR-745-1.2H REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: GA KUGLER	DRAWN: K.M.C.A	DATE: 6-12-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RHR(10)-2	6	40	0.280	SA 106 GR B	C6	NA

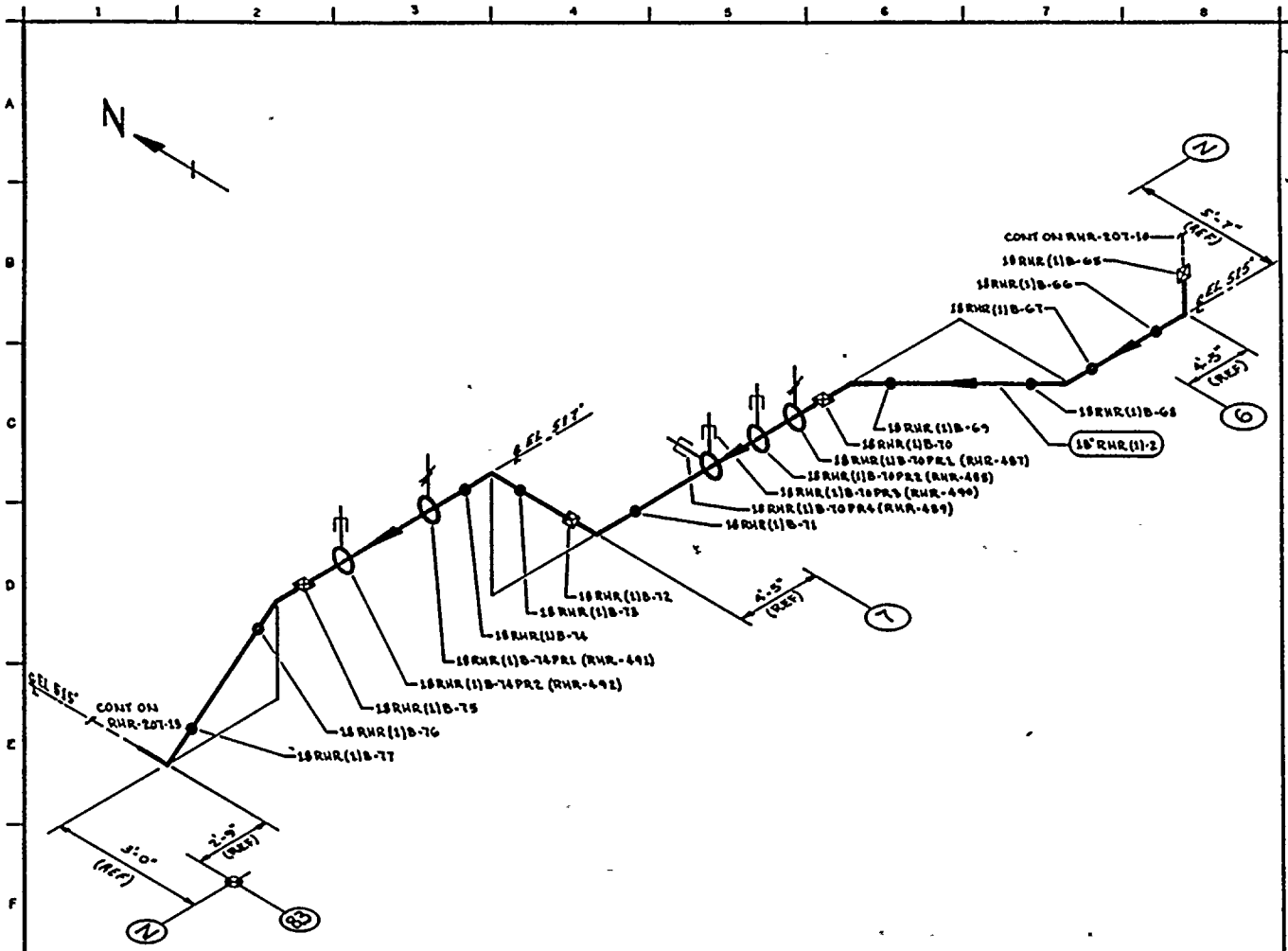
NO	DATE	REVISION	BY	CHKD	APPVD
0	11-15-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
REACTOR HEAD SPRAY SUPPLY

DWG NO: RHR-207-11 REV 0



ZONE R-43

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

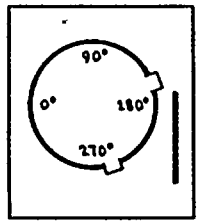
NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-999-12.11 REV 2

RHR-999-12.11N REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K.M.A. DATE: 6-12-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

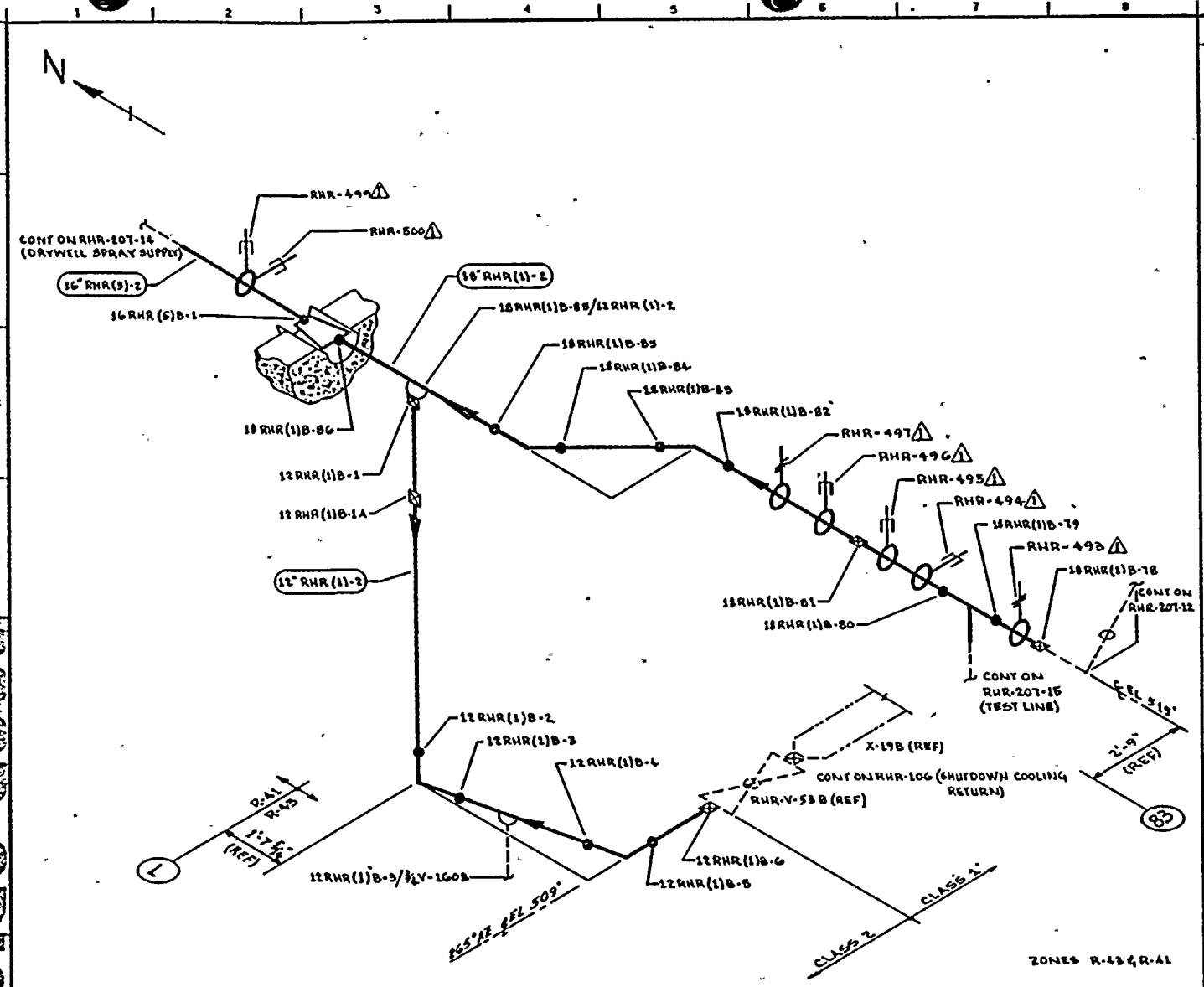
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18"RHR(1)-2	18	30	0.438	SA 106 GR B	CS	N/A

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPLY FROM RHR-HX-1B

DWG NO: RHR-207-12 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-28-77	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]



ZONES R-43 & R-41

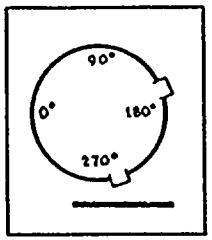
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-899-18.19	REV 0
RHR-899-45	REV 0
RHR-899-18.19H	REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2		
ENGR: GA KUGLER	DRAWN: K.M.c.A	DATE: 6-13-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

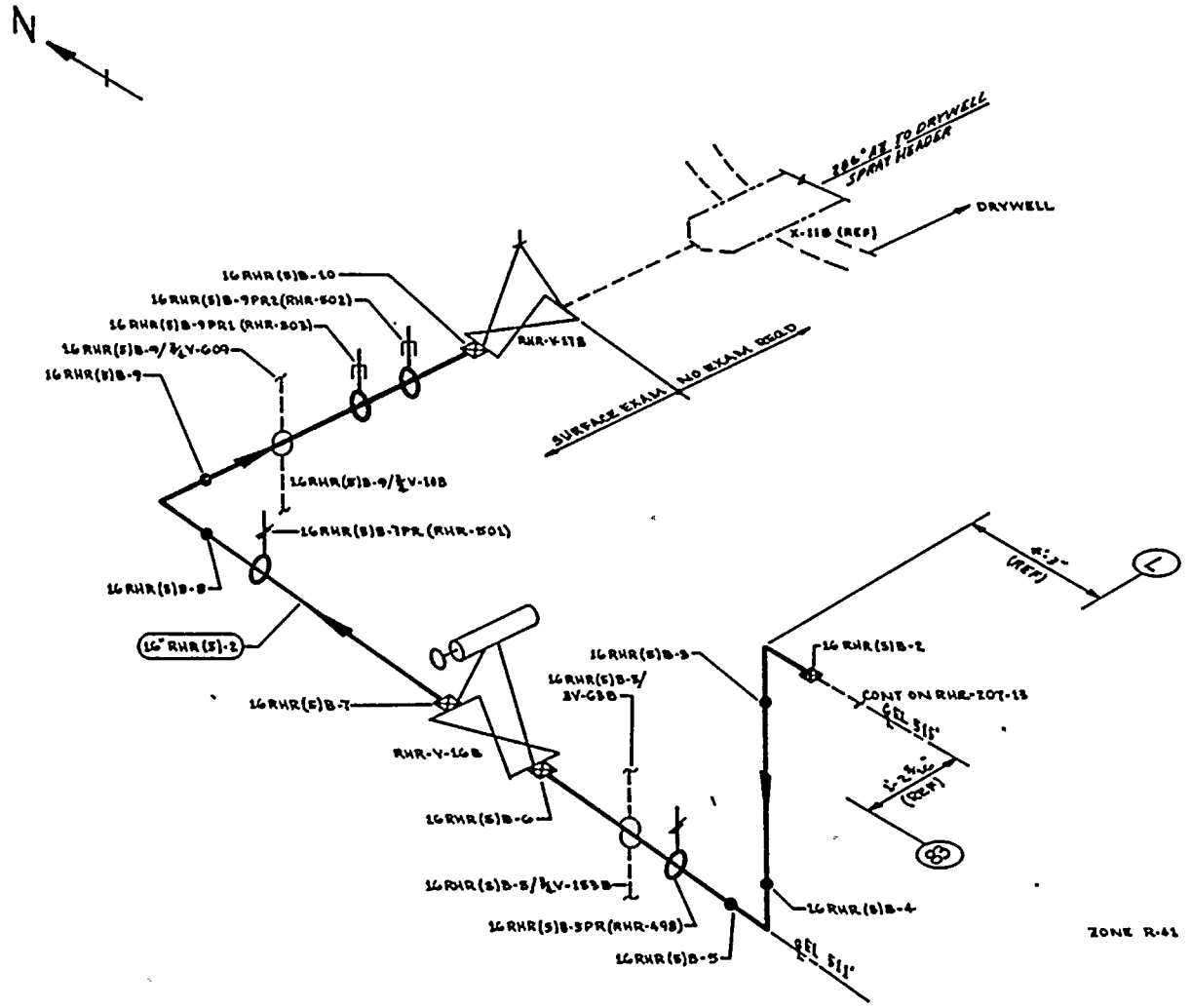
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	NA
16" RHR (5)-2	16	40	0.500	SA 106 GR B	CS	NA
12" RHR (1)-2	12	STD	0.375	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP B & SUPPLY FROM RHR-HX-1B & SHUTDOWN COOLING RETURN

DWG NO: RHR-207-13 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-5-80	ADDED FIELD WELD 12 RHR (1)B-1A & AS NOTED	KMcA	TFB	DWB
0	12-23-78	ISSUED FOR USE	KMcA	GKS	TFB
A	9-12-78	ISSUED FOR INFORMATION ONLY	KMcA	TFK	DWB



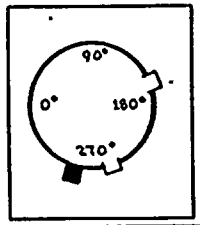
NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-899-20.22 REV 1

RHR-899-20.22H REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16"RHR(S)-2	16	40	0.500	SA 106 GR B	CS	N/A

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-77	ISSUED FOR USE	KLC	GAK	GLR
1	9-12-78	ISSUED FOR INFORMATION ONLY	KLC	GAK	GLR

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: GA KUGLER | DRAWN: K. McA | DATE: 6-14-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

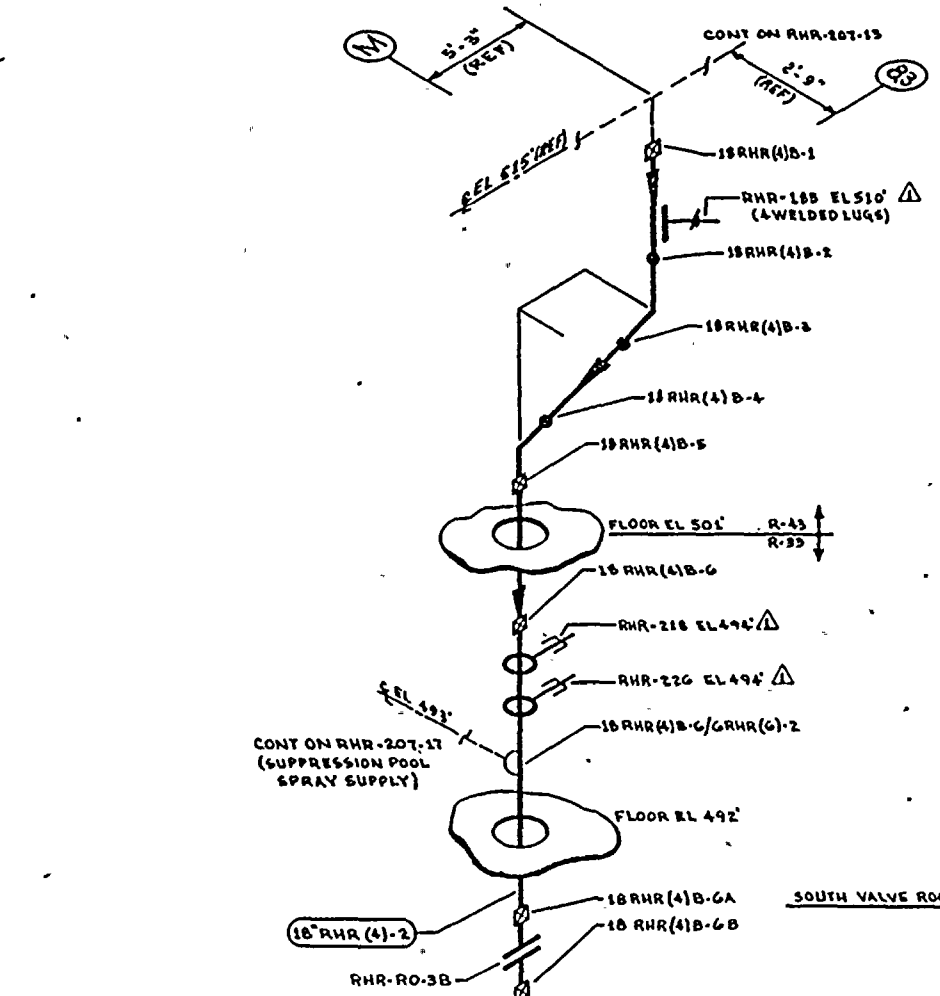
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP B

DRYWELL SPRAY SUPPLY

DWG NO: RHR-207-1A | REV 0



ZONES R-43 & R-33

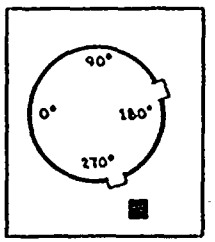
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-976-1.4	REV 3
RHR-976-1.4H	REV 1
RHR-899-15.19H	REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: G.A. KUGLER	DRAWN: K. McA.	DATE: 6-13-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

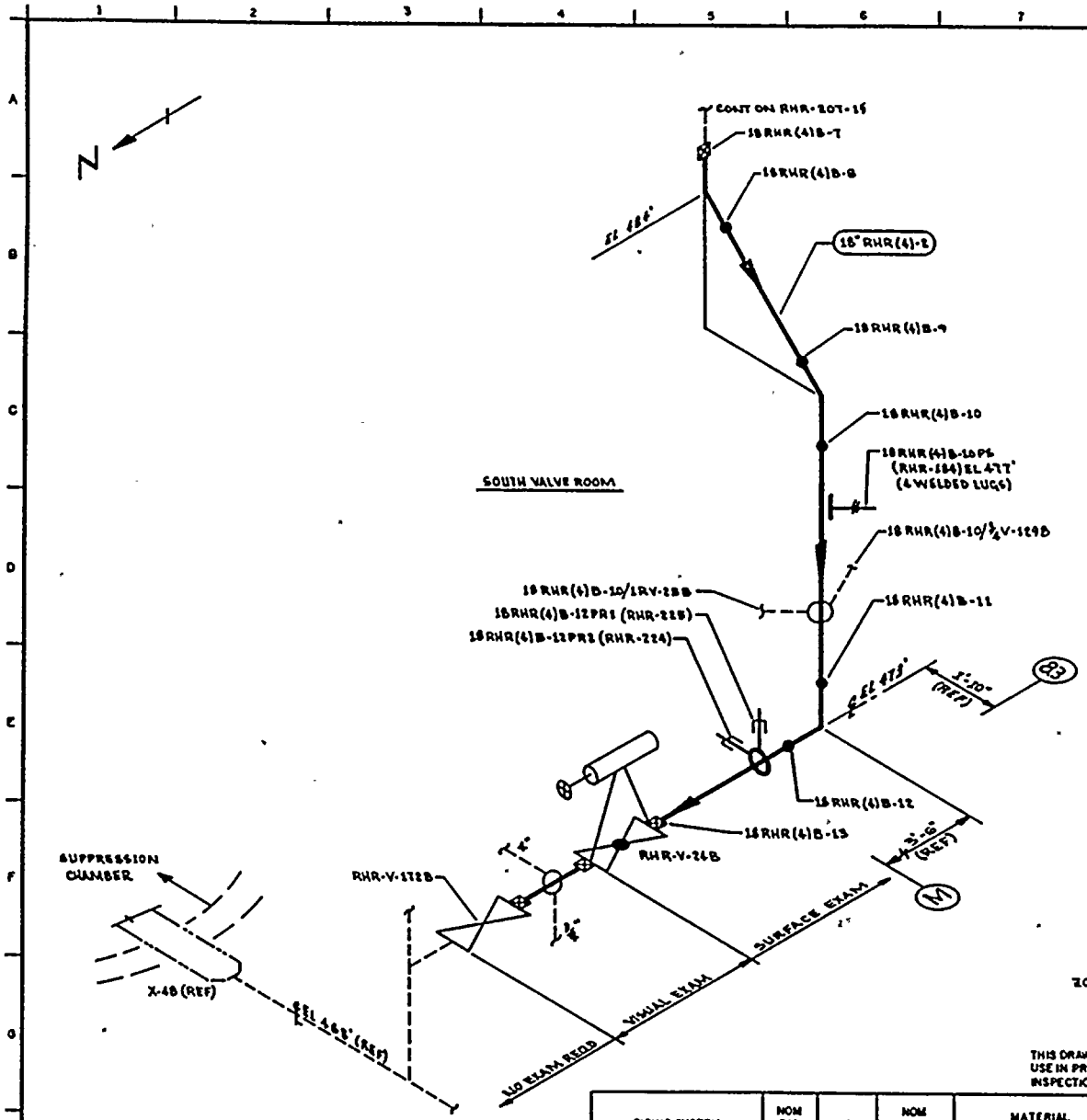
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (4)-2	18	30	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
TEST LINE

DWG NO: RHR-207-15 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-5-80	ADDED FLG & FW 18 RHR(4)B-6A & 6B AS NOTED	KMcA	TTH	
0	11-22-78	ISSUED FOR USE	KMcA	BSW	
1	9-22-78	ISSUED FOR INFORMATION ONLY	KMcA	GAK	



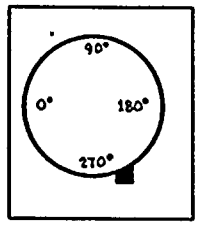
NOTES:

1. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS THAT ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-976-1.4	REV 4
RHR-976-3.6	REV 2
RHR-976-1.4H	REV 1



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR(4)-2	18	80	0.438	SA-106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-17-78	ISSUED FOR USE	KAL	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	KAL	DJK	RLP

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: GA KUGLER	DRAWN: V. M. A.
	DATE: 6-14-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
TEST LINE

DWG NO: RHR-207-16 REV 0

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14RHR(1)B-1	FLANGE TO PIPE	C-F	SUR	PTP-1				
14RHR(1)B-2	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(1)B-3	EL TO PIPE	C-F	SUR	PTP-1				
14RHR(1)B-4	PIPE TO REDUCER	C-F	SUR	PTP-1				
18RHR(1)B-1	REDUCER TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-2	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-3	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-4	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-5	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-6	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-7	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-7/6RHR(7)-2	BRANCH CONN	C-F	SUR	PTP-1				
18RHR(1)B-7/3/4CAP	CAPPED CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)B-7/3/4V-704B	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)B-8	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(1)B-9	VALVE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-9/1-1/2V-84B	CROSSTIE CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)B-10	PIPE TO VALVE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(1)B-11								
	VALVE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-11/3V-72B								
	FLUSH CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)B-11/3/4V-705B								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)B-12								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-13								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-14								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-15								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-16								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-17								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-18								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-19								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)B-20								
	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-21								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-22								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-23								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-24								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-25								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-26								
	PIPE TO VALVE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(1)B-27								
	VALVE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-28								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-29								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-30								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-31								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-32								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-33								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-34								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)B-35								
	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-36								
	PIPE TO REDUCER	C-F	SUR	PTP-1				
18RHR(1)B-36/5/4TE-N004B								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
20RHR(1)B-1								
	REDUCER TO PIPE	C-F	SUR	PTP-1				
20RHR(1)B-2								
	PIPE TO NOZZLE	C-F	SUR	PTP-1				
6RHR(7)B-1								
	WOL TO PIPE	C-F	SUR	PTP-1				
6RHR(7)B-1/3/4V-144B								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
6RHR(7)B-2								
	PIPE TO REDUCER	C-F	SUR	PTP-1				
6RHR(7)B-3								
	REDUCER TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RHR(7)B-3/3/4V-145B	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
6RHR(7)B-4	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(7)B-5	EL TO RO-18	C-F	SUR	PTP-1				
18RHR(11)B-1	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(11)B-2	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(11)B-3	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(11)B-4	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(11)B-5	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(11)B-6	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(11)B-7	VALVE TO PIPE	C-F	SUR	PTP-1				
18RHR(11)B-8	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(11)B-9	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(11)B-10	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(11)B-11	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(11)B-12	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(11)B-13	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(11)B-14	PIPE TO TEE	C-F	SUR	PTP-1				
20RHR(1)B-3	NOZZLE TO PIPE	C-F	SUR	PTP-1				

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RHR(1)B-4								
	PIPE TO EL	C-F	SUR	PTP-1				
20RHR(1)B-5								
	EL TO PIPE	C-F	SUR	PTP-1				
20RHR(1)B-6								
	PIPE TO REDUCER	C-F	SUR	PTP-1				
18RHR(1)B-37								
	REDUCER TO PIPE	C-F	SUR	PTP-1				
RHR-433(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-433								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-37/5/4CE-N001B								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)B-37/4V-26B								
	BRANCH CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)B-38								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-39								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-434								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-435								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-39/3/4V-81B								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(1)B-39/3/4V-75B								
	SAMPLE CONN	N/A	VT-2	QCS&I-002				1-1/2" WOL, 3/4" BRANCH. IWC-2510
18RHR(1)B-40								
	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(1)B-41								
	VALVE TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-436								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(1)B-42								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-43								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-44								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-45								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-46								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)B-47								
	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-48								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)B-49								
	TEE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-49/4V-40								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
RHR-438								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-437(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-437								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-50								
	PIPE TO EL	C-F	SUR	PTP-1				
RHR-462(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				1 WELDED LUG
RHR-462								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14RHR(19)B-1								
	VALVE TO EL	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
14RHR(19)B-3								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-460								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-53(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-53								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
14RHR(19)B-4								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(19)B-5								
	EL TO PIPE	C-F	SUR	PTP-1				
14RHR(19)B-6								
	PIPE TO EL	C-F	SUR	PTP-1				
14RHR(19)B-7								
	EL TO PIPE	C-F	SUR	PTP-1				
14RHR(19)B-8								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)B-51								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-51/5/4TE-N027								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
RHR-463								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-464								
	RIGID GUIDE	C-E-2	VT-3	QCS&I-002				
18RHR(1)B-52								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-468								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-465(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-465								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-466								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-467								
	RIGID GUIDE	C-E-2	VT-3	QCS&I-002				
18RHR(1)B-53								
	PIPE TO FLANGE	C-F	SUR	PTP-1				
18RHR(1)B-53/3/4V-706B								
	INST CONN.	N/A	VT-2	QCS&I-002				IWC 2510
18RHR(1)B-53/3/4V-707B								
	INST CONN	N/A	VT-2	QCS&I-002				IWC 2510
RHR-469								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-54								
	FLANGE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-54/10RHR(5)-2								
	BRANCH CONN	C-F	SUR	PTP-1				
18RHR(1)B-55								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-56								
	EL TO PIPE	C-F	SUR	PTP-1				
10RHR(5)B-1								
	WOL TO PIPE	C-F	SUR	PTP-1				
10RHR(5)B-2								
	PIPE TO EL	C-F	SUR	PTP-1				
10RHR(5)B-3								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-470								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-472								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
10RHR(5)B-4								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-473(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				1 WELDED LUG
RHR-473								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
10RHR(5)B-5								
	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(1)B-57								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-57/6RHR(10)-2								
	BRANCH CONN	C-F	SUR	PTP-1				
RHR-474								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
RHR-475								
	ANCHOR	C-E-2	VT-3	QCS&I-002				
18RHR(1)B-58								
	PIPE TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-59								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-60								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-478								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
18RHR(1)B-61								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-62								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-479(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-479								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-480								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-481								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-486(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-486								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-63								
	PIPE TO TEE	C-F	SUR	PTP-1				
14RHR(1)B-5								
	TEE TO PIPE	C-F	SUR	PTP-1				
14RHR(1)B-5/3/4V-708B								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
14RHR(1)B-5/3/4V-156B								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
14RHR(1)B-6								
	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(1)B-64								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-484								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-485								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
6RHR(10)B-1								
	WOL TO PIPE	C-F	SUR	PTP-1				
6RHR(10)B-2								
	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(10)B-3								
	EL TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2___
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RHR(10)B-4								
	PIPE TO FLANGE	C-F	SUR	PTP-1				
6RHR(10)B-4/3/4V-724								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
6RHR(10)B-4/3/4V-725								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
6RHR(10)B-5								
	FLANGE TO PIPE	C-F	SUR	PTP-1				
RHR-476								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
6RHR(10)B-6								
	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(10)B-7								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-477(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-477								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
6RHR(10)B-8								
	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(10)B-9								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-227(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-227								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-230								
	RIGID HANGER	C-E-2	VT-3	QCS&I-002				
6RHR(10)B-10								
	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(10)B-11								
	EL TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RHR(10)B-12								
	PIPE TO TEE	C-F	SUR	PTP-1				
6RHR(10)B-12/3V-86								
	FLUSH CONN	N/A	VT-2	QCS&I-002				IWC-2510
6RHR(10)B-13								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-228								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
6RHR(10)B-14								
	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(1)B-65								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-66								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-67								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-68								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-69								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-70								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-487								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-488								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-489								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-490								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-71								
	PIPE TO EL	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(1)B-72								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-73								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-74								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-491								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-492								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-75								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-76								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-77								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-78								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-493								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-79								
	PIPE TO TEE	C-F	SUR	PTP-1				
18RHR(1)B-80								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-494								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-495								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-81								
	PIPE TO PIPE	C-F	SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2___
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-496								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-497								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(1)B-82								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-83								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-84								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(1)B-85								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(1)B-85/12RHR(1)-2								
	BRANCH CONN	C-F	SUR	PTP-1				
18RHR(1)B-86								
	PIPE TO REDUCER	C-F	SUR	PTP-1				
12RHR(1)B-1								
	WOL TO PIPE	C-F	SUR	PTP-1				
12RHR(1)B-1A								
	PIPE TO PIPE	C-F	SUR	PTP-1				
12RHR(1)B-2								
	PIPE TO EL	C-F	SUR	PTP-1				
12RHR(1)B-3								
	EL TO PIPE	C-F	SUR	PTP-1				
12RHR(1)B-3/4V-160B								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
12RHR(1)B-4								
	PIPE TO EL	C-F	SUR	PTP-1				
12RHR(1)B-5								
	EL TO PIPE	C-F	SUR	PTP-1				
12RHR(1)B-6								
	PIPE TO VALVE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
16RHR(5)B-1								
	REDUCER TO PIPE	C-F	SUR	PTP-1				ISO #RHR-207-13
RHR-499								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-500								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RHR(5)B-2								
	PIPE TO EL	C-F	SUR	PTP-1				
16RHR(5)B-3								
	EL TO PIPE	C-F	SUR	PTP-1				
16RHR(5)B-4								
	PIPE TO EL	C-F	SUR	PTP-1				
16RHR(5)B-5								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-498								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RHR(5)B-5/3V-63B								
	FLUSH CONN	N/A	VT-2	QCS&I-002				
16RHR(5)B-5/3/4V-153B								
	TEST CONN	N/A	VT-2	QCS&I-002				
16RHR(5)B-6								
	PIPE TO VALVE	C-F	SUR	PTP-1				
16RHR(5)B-7								
	VALVE TO PIPE	C-F	SUR	PTP-1				
RHR-501								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RHR(5)B-8								
	PIPE TO EL	C-F	SUR	PTP-1				
16RHR(5)B-9								
	EL TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
16RHR(5)B-9/3/4V-10B								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
16RHR(5)B-9/3/4V-609								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
16RHR(5)B-9/3/4V-10B								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
RHR-503								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-502								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RHR(5)B-10								
	PIPE TO VALVE	C-F	SUR	PTP-1				
18RHR(4)B-1								
	TEE TO PIPE	C-F	SUR	PTP-1				
RHR-185(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-185								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)B-2								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)B-3								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(4)B-4								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)B-5								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(4)B-6								
	PIPE TO PIPE	C-F	SUR	PTP-1				
RHR-218								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-226								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

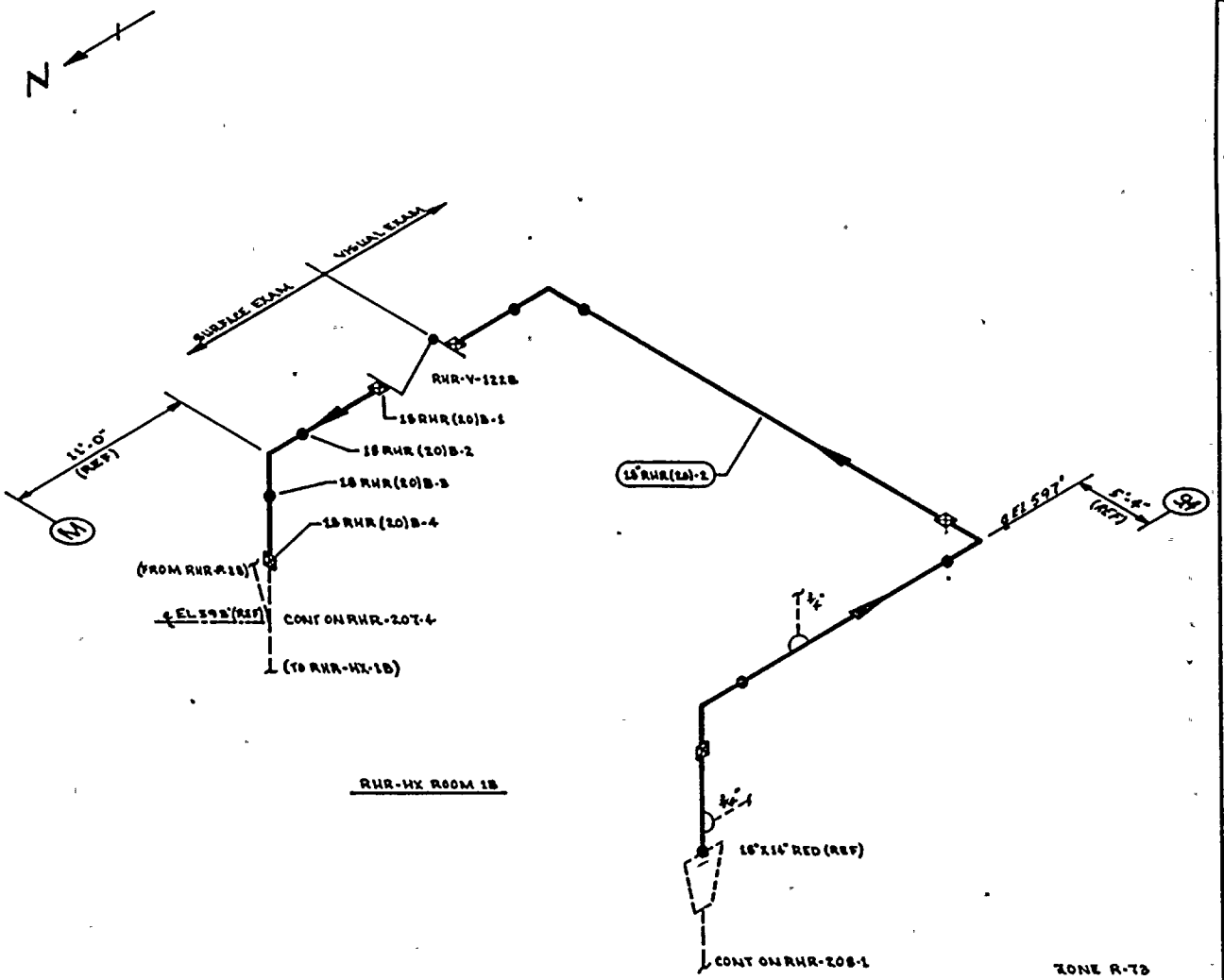
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18RHR(4)B-6/6RHR(6)-2	BRANCH CONN	C-F	SUR	PTP-1				
18RHR(4)B-6A	PIPE TO FLANGE	C-F	SUR	PTP-1				
18RHR(4)B-6B	FLANGE TO PIPE	C-F	SUR	PTP-1				
18RHR(4)B-7	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)B-8	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(4)B-9	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)B-10	EL TO PIPE	C-F	SUR	PTP-1				
RHR-184(W)	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-184	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)B-10/1RV-25B	RELIEF CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(4)B-10/3/4V-129B	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
18RHR(4)B-11	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(4)B-12	EL TO PIPE	C-F	SUR	PTP-1				
RHR-224	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-225	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(4)B-13	PIPE TO VALVE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RHR(6)B-1								
	WOL TO PIPE	C-F	SUR	PTP-1				
6RHR(6)B-1/3/4V-143B								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
6RHR(6)B-2								
	PIPE TO EL	C-F	SUR	PTP-1				
6RHR(6)B-3								
	EL TO PIPE	C-F	SUR	PTP-1				
6RHR(6)B-4								
	PIPE TO VALVE	C-F	SUR	PTP-1				
RHR-V-27B/1/4LOC								
	STEM LEAKOFF	N/A	VT-2	QCS&I-002				IWC-2510
RHR-PB-207								
	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510



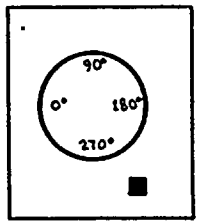
NOTES:

1. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINE) EXTEND VISUAL EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
2. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-B9B-16-17 REV 3
RHR-B9B-16-20 REV 3



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (20)-2	18	80	0.438	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	11.19.18	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	9.11.18	ISSUED FOR INFORMATION ONLY	KMcA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G A KUGLER | DRAWN: K. McA | DATE: 6-15-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
RCIC STEAM SUPPLY TO RHR-HX-1B

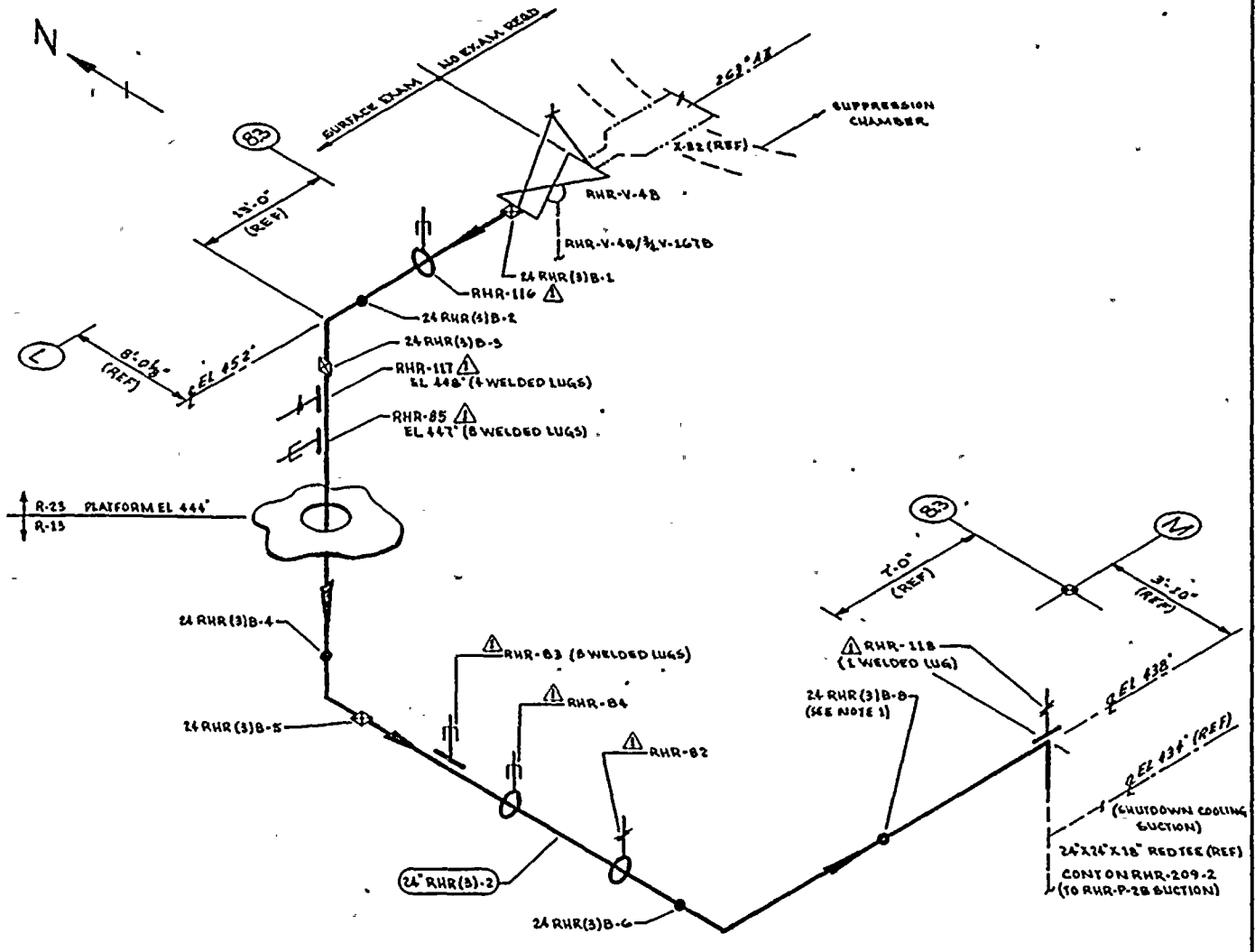
DWG NO: RHR-208-2 | REV 0

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-208

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
18RHR(20)B-1	VALVE TO PIPE	C-F	SUR	PTP-1				
18RHR(20)B-2	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(20)B-3	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(20)B-4	PIPE TO TEE	C-F	SUR	PTP-1				
RHR-PB-208	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				



KEY PLAN

RHR PUMP ROOM R-1

ZONES R-23 & R-13

NOTES:

1. WELD 24 RHR (3)B-6 IS FITTING TO FITTING.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-879-1.3 REV 1

RHR-879-1.3H REV 1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RHR (3)-2	24	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-6-89	DELETED WELD 24 RHR(3)B-6, ADDED NOTE 1,	KMcA	JHD	
0	11-11-78	ISSUED FOR USE	KMcA	KMcA	
A	9-12-78	ISSUED FOR INFORMATION ONLY	KMcA	KMK	

QUALITY CLASS: 1 | ASME CODE CLASS: 2

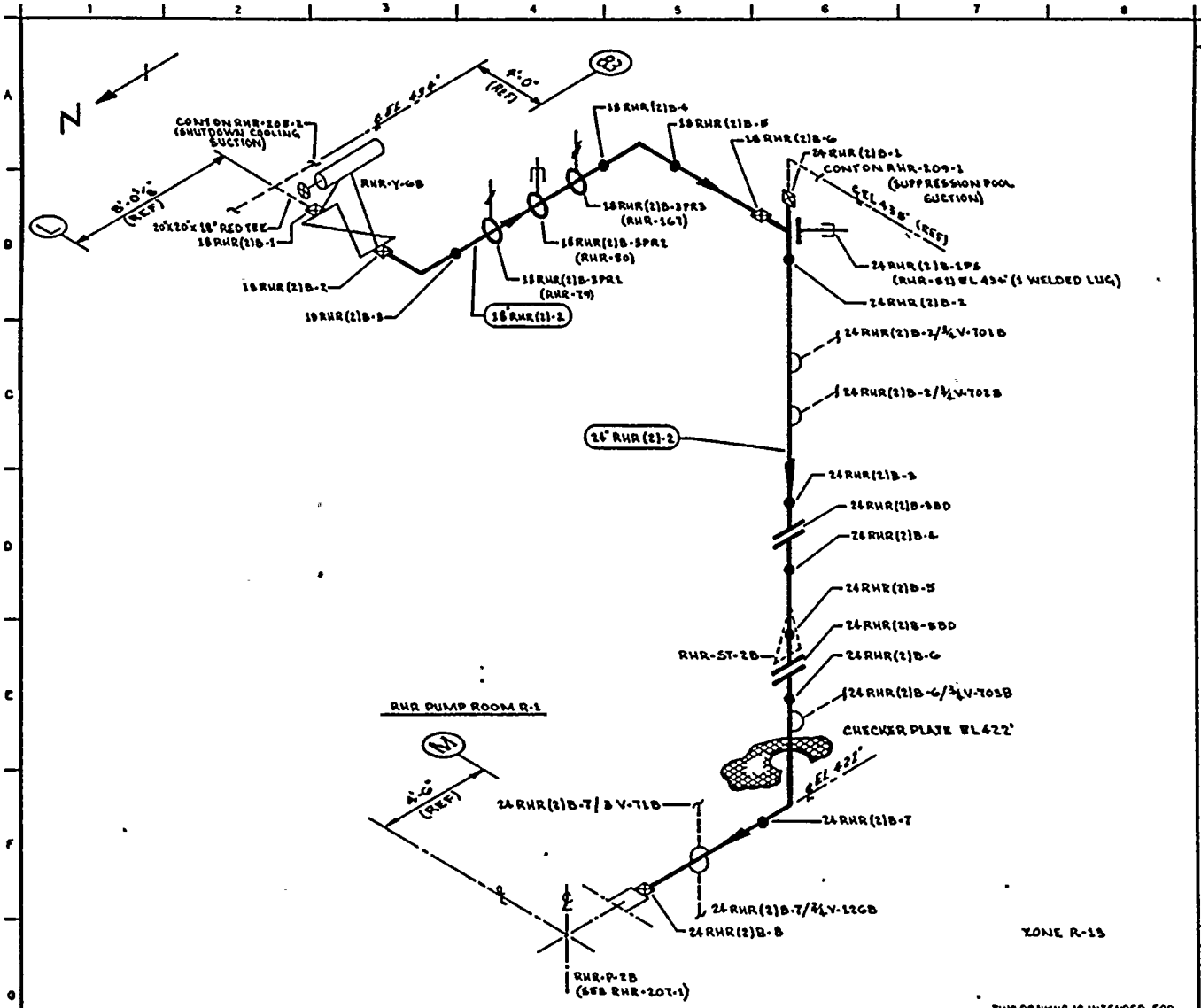
ENGR: G.A. KUGLER | DRAWN: K. McA | DATE: 6-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPRESSION POOL SUCTION

DWG NO: RHR-209-1 | REV 1



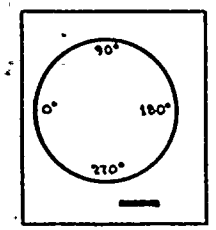
NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-875-9.12 REV 2

RHR-875-9.12H REV 1



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18"RHR(2)-2	18	STD	0.375	SA 106 GR B	CS	NA
24"RHR(2)-2	24	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE	KWJ	[illegible]	[illegible]
1	9-22-78	ISSUED FOR INFORMATION ONLY	KWJ	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: V. Mc A. | DATE: 6-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SHUTDOWN COOLING SUCTION

DWG NO: RHR-209-2 | REV 0

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-209

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-V-4B/3/4-1678	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(3)B-1	VALVE TO PIPE	C-F	SUR	PTP-1				
RHR-116	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
24RHR(3)B-2	PIPE TO EL	C-F	SUR	PTP-1				
24RHR(3)B-3	EL TO PIPE	C-F	SUR	PTP-1				
RHR-117(W)	WELDED SUPPORT	C-E-1	SUR	PTP-1				4 WELDED LUGS
RHR-117	SPRING HANGER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
RHR-85(W)	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-85	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
24RHR(3)B-4	PIPE TO EL	C-F	SUR	PTP-1				
24RHR(3)B-5	EL TO PIPE	C-F	SUR	PTP-1				
RHR-83(W)	WELDED SUPPORT	C-E-1	SUR	PTP-1				8 WELDED LUGS
RHR-83	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
RHR-84	SNUBBER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
RHR-82	SPRING HANGER	C-E-2	VT-3 VT-4	QCS&I-002 QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-209

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

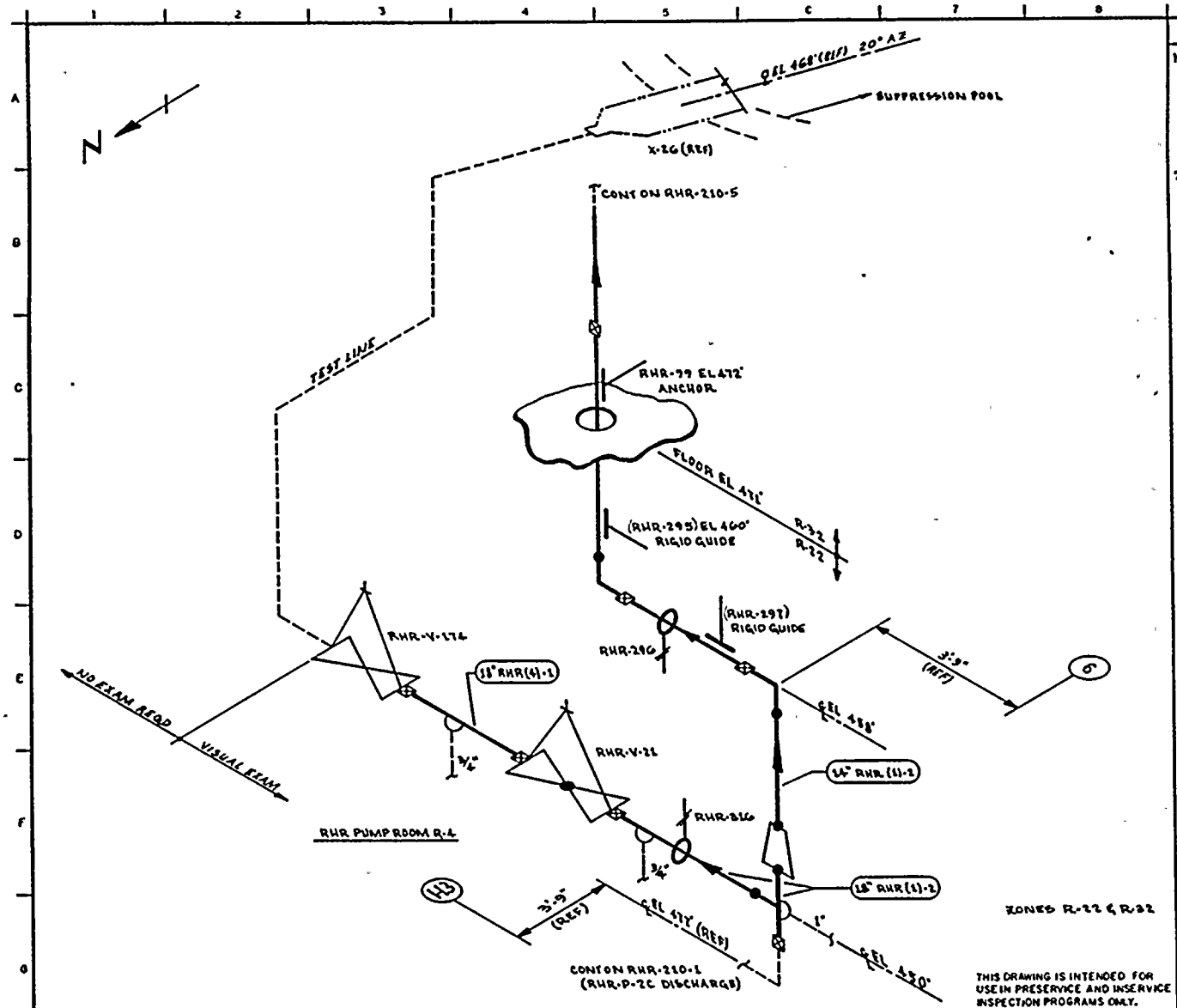
DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RHR(3)B-6								
	PIPE TO EL	C-F	SUR	PTP-1				
24RHR(3)B-8								
	EL TO EL	C-F	SUR	PTP-1				
RHR-118(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				1 WELDED LUG
RHR-118								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(2)B-1								
	TEE TO VALVE	C-F	SUR	PTP-1				
18RHR(2)B-2								
	VALVE BOLTING	C-F	SUR	PTP-1				
18RHR(2)B-3								
	EL TO PIPE	C-F	SUR	PTP-1				
RHR-79								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-80								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RHR-167								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18RHR(2)B-4								
	PIPE TO EL	C-F	SUR	PTP-1				
18RHR(2)B-5								
	EL TO PIPE	C-F	SUR	PTP-1				
18RHR(2)B-6								
	PIPE TO TEE	C-F	SUR	PTP-1				
24RHR(2)B-1								
	EL TO TEE	C-F	SUR	PTP-1				
RHR-81(W)								
	WELDED SUPPORT	C-E-1	SUR	PTP-1				1 WELDED LUG
RHR-81								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-209

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(1)2___
DESCRIPTION: LOOP B SPLY-RHR HX1B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RHR(2)B-2	TEE TO PIPE	C-F	SUR	PTP-1				
24RHR(2)B-2/3/4V-701B	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(2)B-2/3/4V-702B	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(2)B-3	PIPE TO FLANGE	C-F	SUR	PTP-1				
24RHR(2)B-4	FLANGE TO PIPE	C-F	SUR	PTP-1				
24RHR(2)B-5	PIPE TO FLANGE	C-F	SUR	PTP-1				
24RHR(2)B-6	FLANGE TO EL	C-F	SUR	PTP-1				
24RHR(2)B-6/3/4V-703B	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(2)B-7	EL TO PIPE	C-F	SUR	PTP-1				
24RHR(2)B-7/3V-71B	FLUSH CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(2)B-7/3/4V-126B	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
24RHR(2)B-8	PIPE TO PUMP	C-F	SUR	PTP-1				
RHR-PB-209	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

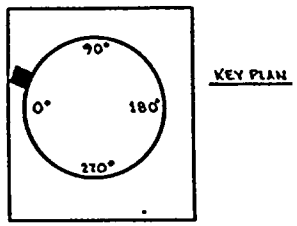
NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TEST. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-897-6.9	REV 5
RHR-897-10.14	REV 1
RHR-897-6.9 H	REV 0
RHR-897-10.14H	REV 0
RHR-897-10.14AH	REV 1



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	CS	NA
18" RHR (1)-2	18	30	0.438	SA 106 GR B	CS	NA
18" RHR (4)-1	18	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE			
A	9-22-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS 2

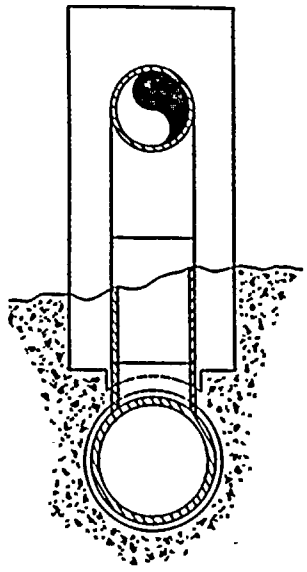
ENGR G.A. KUGLER | DRAWN | DATE 6-20-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP C/LPCI RETURN & TEST LINE

DWG NO: RHR-210-4 | REV 0

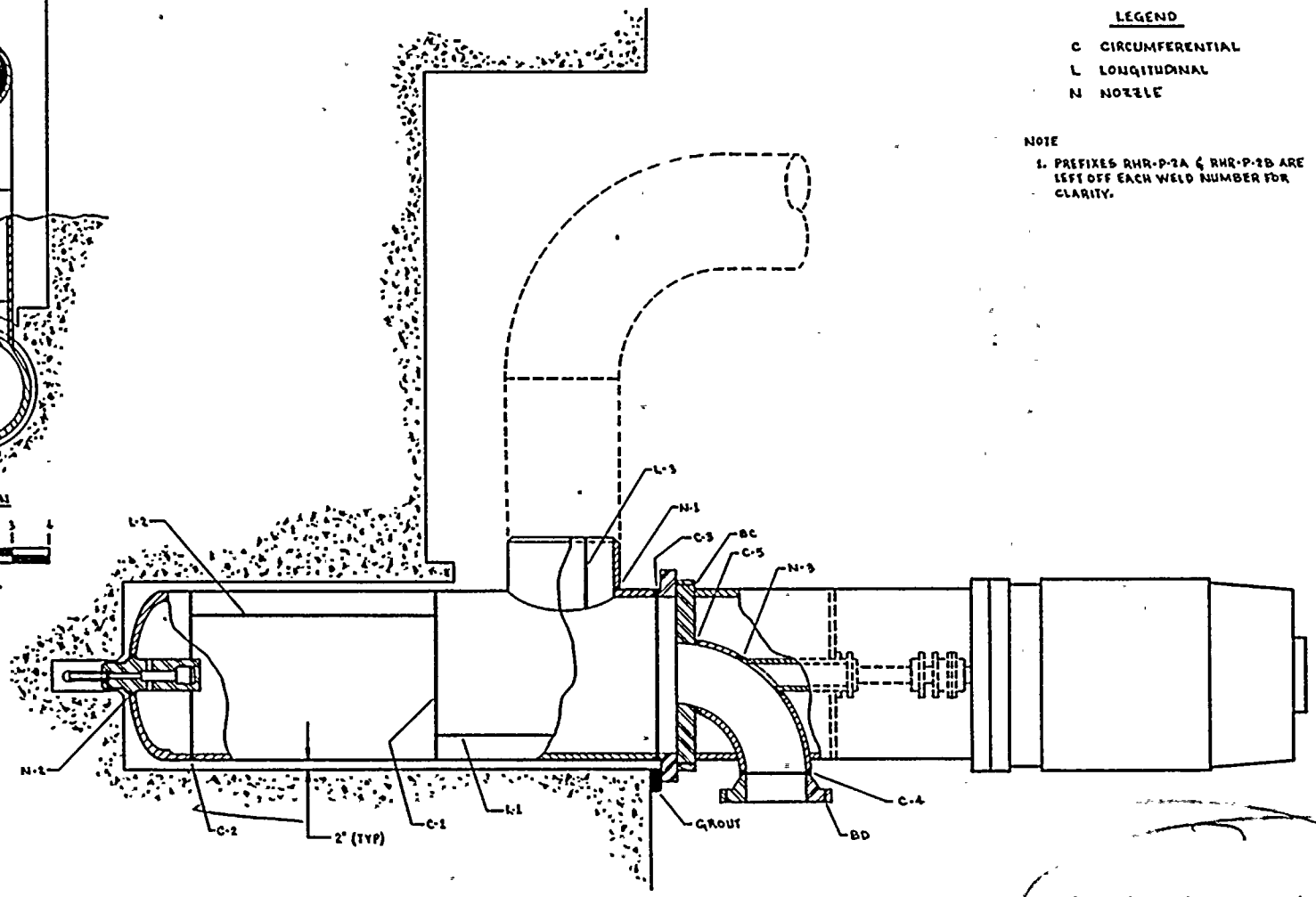


LEGEND

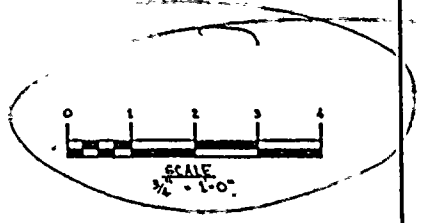
C CIRCUMFERENTIAL
L LONGITUDINAL
N NOZZLE

NOTE

1. PREFIXES RHR-P-2A & RHR-P-2B ARE LEFT OFF EACH WELD NUMBER FOR CLARITY.



TYPICAL FOR RHR-P-2A & 2B



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2

ENGINEER T VOYLE

DRAWN K-McANDREW

DATE 10-24-18

WELD & COMPONENT IDENTIFICATION DIAGRAM
RHR-P-2A & 2B WELDS

DWG NO RHR-213 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	5/11/19	REDRAWN	KMcA	1/9/08	
0	11-27-18	ISSUED FOR USE	KMcA	BEV	

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-213

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR-P-2A
DESCRIPTION: RHR PUMP 2A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-P-2AC-1	PMP CAS/CIR WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-P-2AC-2	PMP CAS/CIR WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-P-2AC-3	PMP CAS/CIR WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-P-2AC-4	PMP CAS/CIR WLD	C-F	SUR	PTP-1				
RHR-P-2AC-5	PMP CAS/CIR WLD	C-F	SUR	PTP-1				
RHR-P-2AN-1	PMP NOZZLE WELD	C-F	SUR	PTP-1				
RHR-P-2AN-2	PMP NOZZLE WELD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-P-2AN-3	PMP NOZZLE WELD	C-F	SUR	PTP-1				
RHR-P-2AL-1	PMPCAS/LONG.WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING.
RHR-P-2AL-2	PMPCAS/LONG.WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING.
RHR-P-2AL-3	PMPCAS/LONG.WLD	C-F	SUR	PTP-1				
RHR-P-2BC-1	PMP CAS/CIR WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-P-2BC-2	PMP CAS/CIR WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-213

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR-P-2A
DESCRIPTION: RHR PUMP 2A

DATE 11/13/80

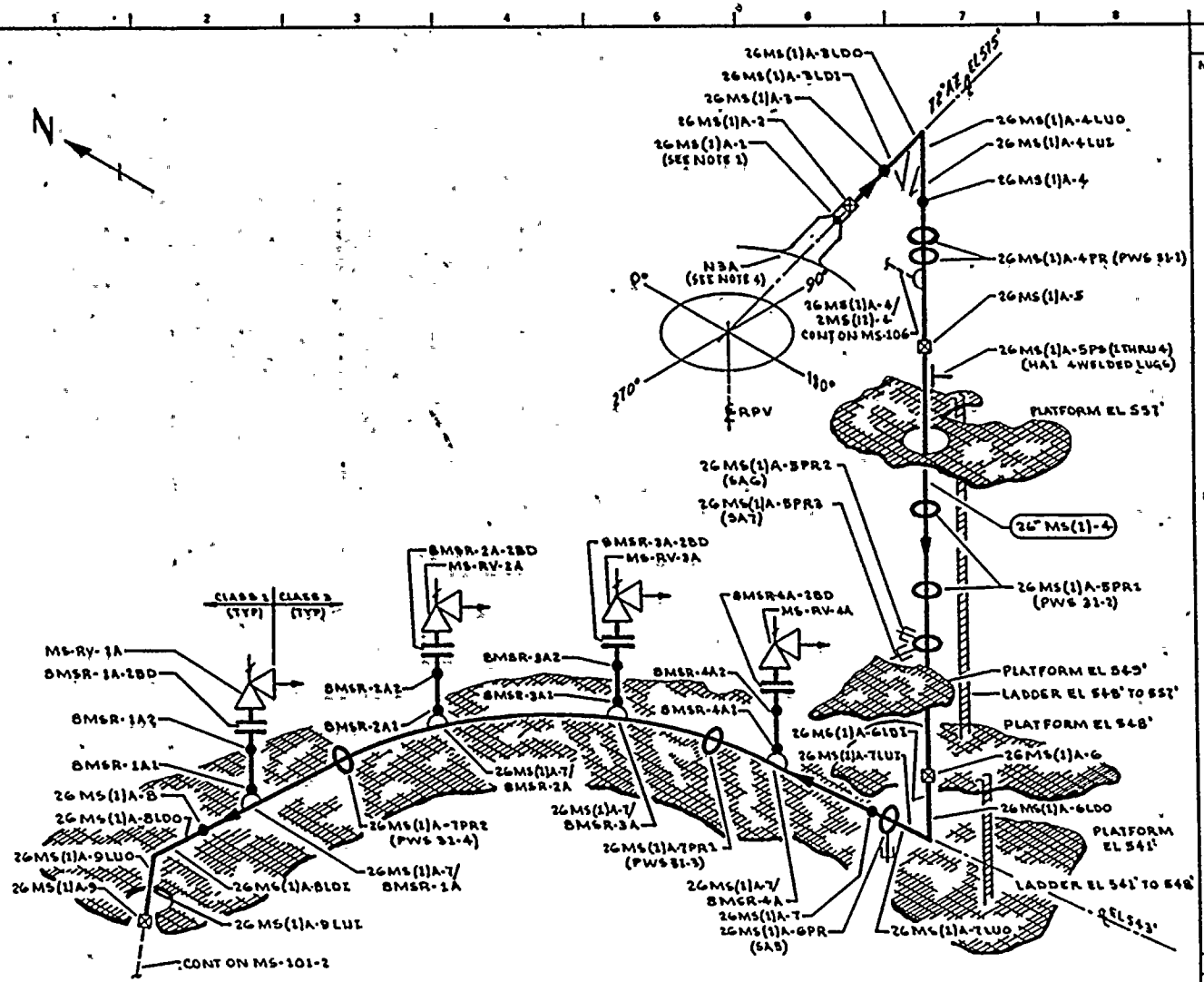
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RHR-P-2BC-3	PMP CAS/CIR WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-P-2BC-4	PMP CAS/CIR WLD	C-F	SUR	PTP-1				
RHR-P-2BC-5	PMP CAS/CIR WLD	C-F	SUR	PTP-1				
RHR-P-2BN-1	PMP NOZZLE WELD	C-F	SUR	PTP-1				
RHR-P-2BN-2	PMP NOZZLE WELD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-P-2BN-3	PMP NOZZLE WELD	C-F	SUR	PTP-1				
RHR-P-2BL-1	PMPCAS/LONG.WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-P-2BL-2	PMPCAS/LONG.WLD	C-F	VT-2	QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-P-2BL-3	PMPCAS/LONG.WLD	C-F	SUR	PTP-1				
RHR-PB-213	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RHR-214

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR-HX-1A
DESCRIPTION: RHR HEAT EXCHANGE 1A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
AC-1	FLG/SHEL CIRWLD	C-A	VOL	UTP-17	UT-42			
AC-4	SHEL/HD CIR WLD	C-A	VOL	UTP-17	UT-42			
			SUR	PTP-1				
AN-3	INLET NZ/SHELWD	C-B	VOL	UTP-17	UT-43			
			SUR	PTP-1				
AN-4	OUT NZ/SHEL WLD	C-B	VOL	UTP-17	UT-43			
			SUR	PTP-1				
AS-1	HEATXCHG SUP WD	C-C	SUR	PTP-1				4 WELDED SUPPORTS 0,90,180,270 DEG.
BC-1	FLG/SHEL CIR WD	C-A	VOL	UTP-17	UT-42			
			SUR	PTP-1				
BC-4	SHEL/HD CIR WLD	C-A	VOL	UTP-17	UT-42			
			SUR	PTP-1				
BN-3	INLT NZ/SHEL WD	C-B	VOL	UTP-17	UT-43			
			SUR	PTP-1				
BN-4	OUT NZ/SHEL WLD	C-B	VOL	UTP-17	UT-43			
			SUR	PTP-1				
BS-1	HEATXCHG SUP WD	C-C	SUR	PTP-1				4 WELDED SUPPORTS, 0,90,180,270 DEG.
RHR-PB-214	RHR PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510



NOTES:

1. WELD 26MS(1)A-2 UTILIZES CAL BLOCK UT-104.
2. ACCESS TO WELDS 26MS(1)A-2 THRU 26MS(1)A-5 REQUIRES TEMPORARY SCAFFOLDING.
3. ACCESS TO WELD 26MS(1)A-7 REQUIRES REMOVAL OF 26MS(1)A-6PR.
4. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-107.

REFERENCES:

GENERAL ELECTRIC DRAWINGS:

761E992	131C8031
131C7751	131C8030
131C8403	131C8046
131C8501	

CBI NUCLEAR CO.

56, REV 5, N3 NOZZLE

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: K-McA	DATE: 1-10-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

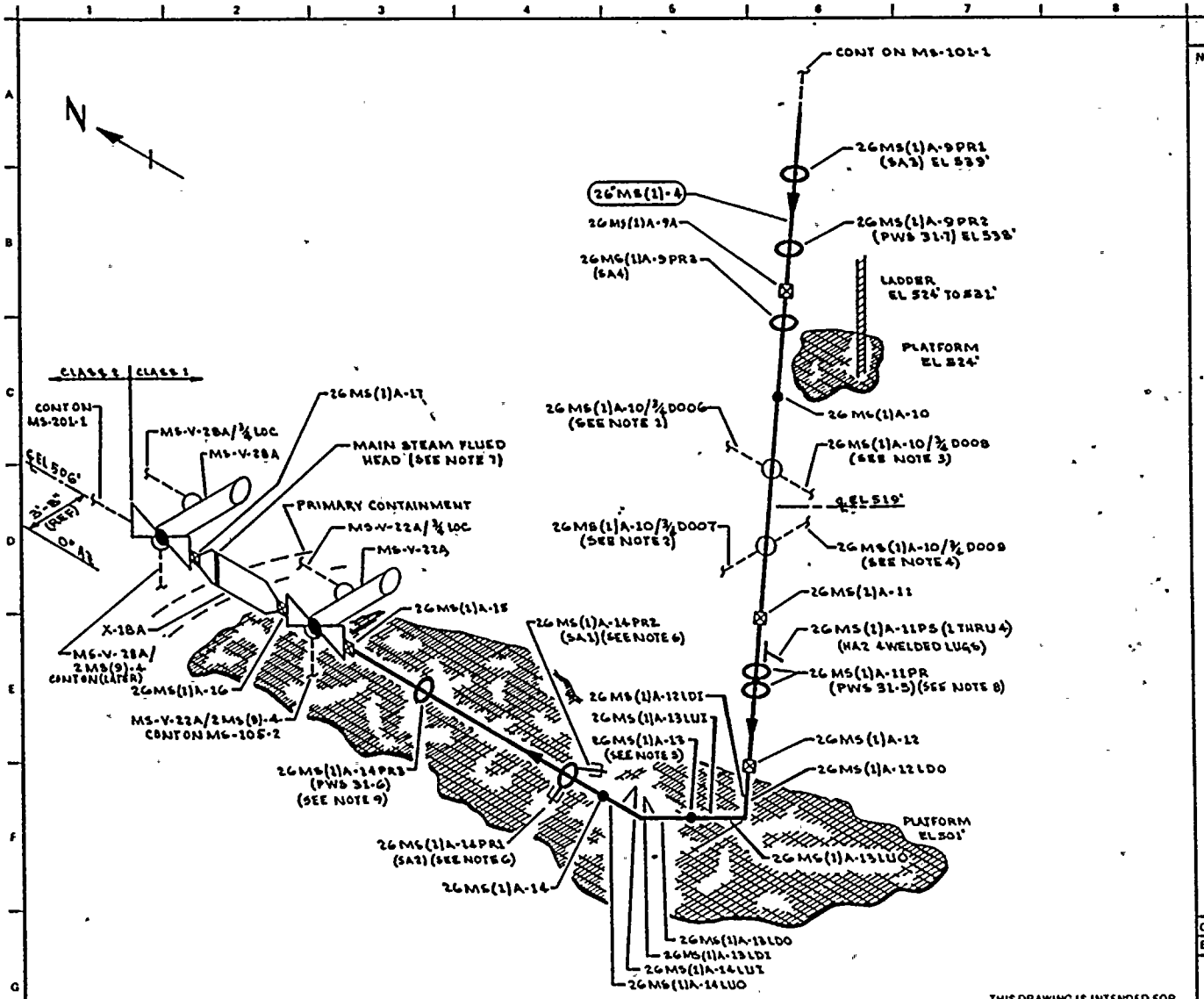
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26" MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4
8" MSR-A	2.8	160	0.906	SA 106 GR B	CS	UT-34

NO	DATE	REVISION	BY	CHKD	APPVD
2	8/20/79	ADDED NOTE 4.	K-McA	[illegible]	[illegible]
1	5-10-79	CAL BLOCK REFERENCE CHANGED (FOR 8" PIPING)	K-McA	[illegible]	[illegible]
0	11/27/78	ISSUED FOR USE	K-McA	DCJ	[illegible]
A	4/21/78	ISSUED FOR INFORMATION ONLY	K-McA	DCJ	[illegible]

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE A

DWG NO MS-101-1 REV 2



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-68a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-68b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-42a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-42b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. WELD 26MS(1)A-13 IS FITTING TO FITTING.
6. ACCESS TO WELD 26MS(1)A-14 REQUIRES REMOVAL OF 26MS(1)A-14PR1 & 26MS(1)A-14PR2
7. FOR EXAM OF MAIN STEAM FLUED HEAD SEE DWG MS-101-3.
8. ACCESS TO WELD 26MS(1)A-12 IS RESTRICTED BY PWS 31-5.
9. ACCESS TO WELD 26MS(1)A-15 IS RESTRICTED BY PWS 31-6.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 992	131 C 8031
131 C 7731	131 C 8030
131 C 8403	131 C 8046
131 C 8501	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26" MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4

NO	DATE	REVISION	BY	CHKD	APPVD
1	8-30-79	ADDED FIELD WELD 26MS(1)A-9A IN B-6	KMcA	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	6-21-78	ISSUED FOR INFORMATION ONLY	KMcA	DCT	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: K. McA. | DATE: 1-10-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE A

DWG NO. MS-101-2 | REV 1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)A-1								
	NZ/TRANSITION	B-J	VOL	UTP-10	UT-104			
			SUR	PTP-1				
26MS(1)A-2								
	TRANSITION/PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-3								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-3LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-3LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-4LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-4LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-4								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
PWS-31-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)A-4/2MS(12)-4								
	HEAD VENT CONN	B-J	SUR	PTP-1				
26MS(1)A-5								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-HA-1(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-26	UT-4			
			SUR	PTP-1				
MS-HA-1								
	HANGER	B-K-2	VT-3	QCS&I-002				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
PWS-31-2								
	PWS	N/A	N/A	N/A				SEE NOTE #1
MS-SA-6								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-SA-7								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)A-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-6LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-6LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-7LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-1			
			SUR	PTP-1				
26MS(1)A-7LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-SA-5								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)A-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-7/8MSR-4A								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-4A1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
8MSR-4A2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-4A-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-4A-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-4A-BDY								
	VALVE BOLTING	B-M-2	VT-1	QCS&I-002				
PWS-31-3								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)A-7/8MSR-3A								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-3A1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-3A2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-3A-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-3A-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-3A-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)A-7/8MSR-2A								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-2A1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-2A2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
8MSR-2A-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-2A-BLT								
	VALVE BOLTINGG	B-G-2	VT-1	QCS&I-002				
MS-RV-2A-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
PWS-31-4								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)A-7/8MSR-1A								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-1A1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-1A2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-1A-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-1A-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-1A-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)A-8								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-8LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-8LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-9LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)A-9LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-9								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-SA-3								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-31-7								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)A-9A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-SA-4								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)A-10								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)A-10/3/4-D006								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)A-10/3/4-D008								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)A-10/3/4-D007								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)A-10/3/4-D009								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)A-11								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-HA-2(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-26	UT-4			
			SUR	PTP-1				
MS-HA-2								
	HANGER	B-K-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
PWS-31-5	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)A-12	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-12LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-12LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-13LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-13LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-13	EL TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-13LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-13LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-14LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-14LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)A-14	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-4			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-101

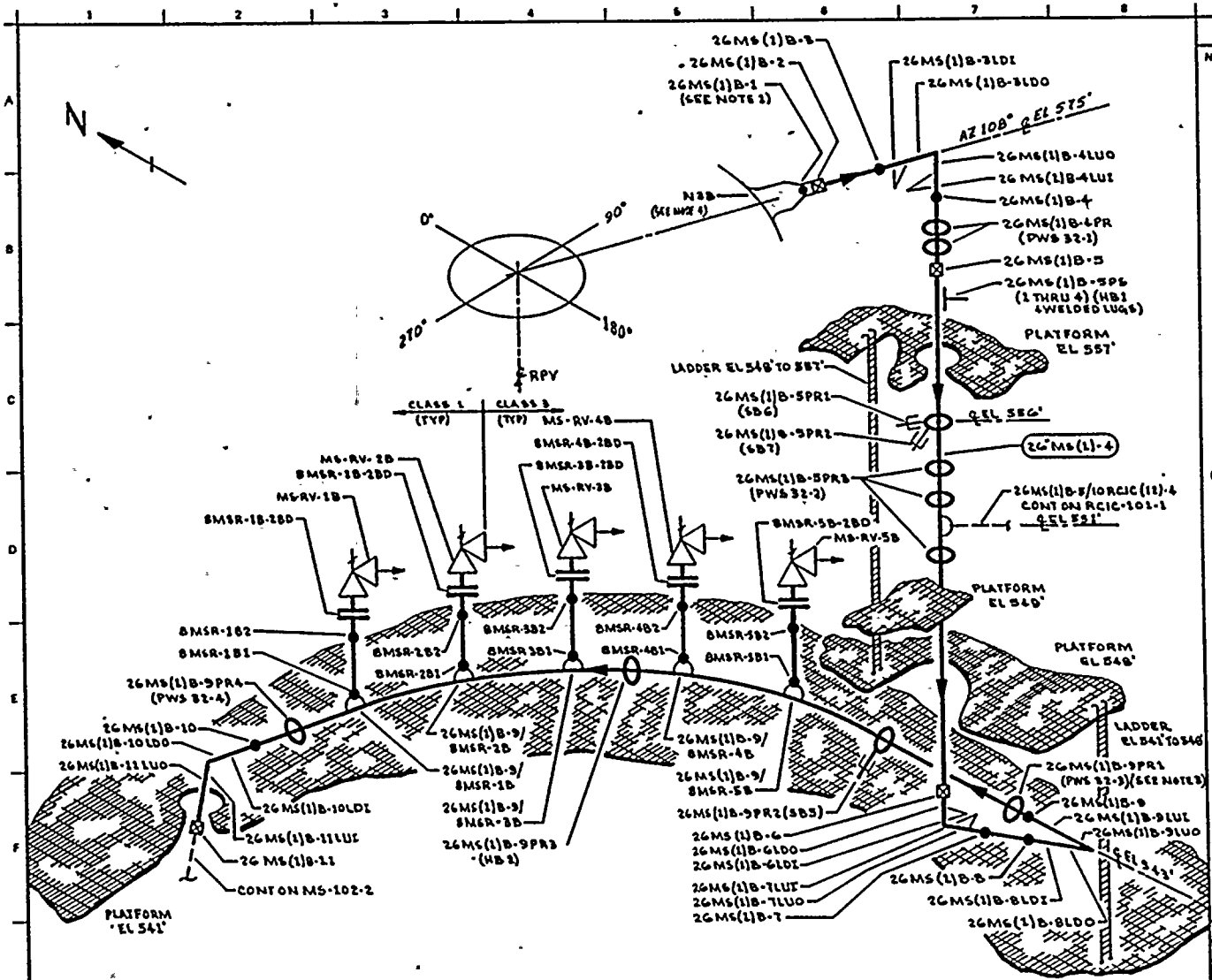
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-SA-1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-SA-2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-31-6								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)A-15								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-V-22A/2MS(9)-4								
	DRAIN CONN	B-J	SUR	PTP-1				
MS-V-22A/3/4LOC								
	LEAK OFF CONN	B-P	VT-2	QCS&I-002				
MS-V-22A-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-V-22A-BDY								
	VALVE BODY	B-G-2	VT-1	QCS&I-002				
26MS(1)A-16								
	VALVE TO PENE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS FLUED HEAD A								
	FLUED HEAD WELD	B-K-1	VOL	UTP-33	UT-40			SEE DWG. # MS-101-3
26MS(1)A-17								
	PENE TO VALVE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-V-28A/2MS(9)-4								
	DRAIN CONN	B-J	SUR	PTP-1				
MS-V-28A/3/4LOC								
	LEAK OFF CONN	B-P	VT-2	QCS&I-002				
MS-V-28A-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-V-28A-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-PB-101	MS PRESS BNDRY	B-P	VT-2	OCS&I-002				



NOTES:

1. WELD 26MS(1)B-1 UTILIZES CAL BLOCK UT-104.
2. ACCESS TO WELDS 26MS(1)B-1 THRU 26MS(1)B-5 REQUIRES TEMPORARY SCAFFOLDING.
3. ACCESS TO WELD 26MS(1)B-9 REQUIRES REMOVAL OF 26MS(1)B-9PR1.
4. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-107.

REFERENCES:

GENERAL ELECTRIC DRAWINGS:

761 E 992	131 C 8028
131 C 7732	131 C 8029
131 C 8403	131 C 8030
131 C 8501	131 C 8047

CBI NUCLEAR CO.
55, REV 5, N3 NOZZLE

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

* PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4
8"MSR-B	8	160	0.906	SA 106 GR B	CS	UT-24

NO	DATE	REVISION	BY	CHKD	APPVD
2	8-30-79	ADDED NOTE 4.	KMcA	[illegible]	[illegible]
1	1-16-79	CAL BLOCK REFERENCE CHANGED (FOR 8" PIPING)	KMcA	[illegible]	[illegible]
0	12-27-78	ISSUED FOR USE	KMcA	DCJ	DSP
A	4-21-78	ISSUED FOR INFORMATION ONLY	KMcA	DCJ	DSP

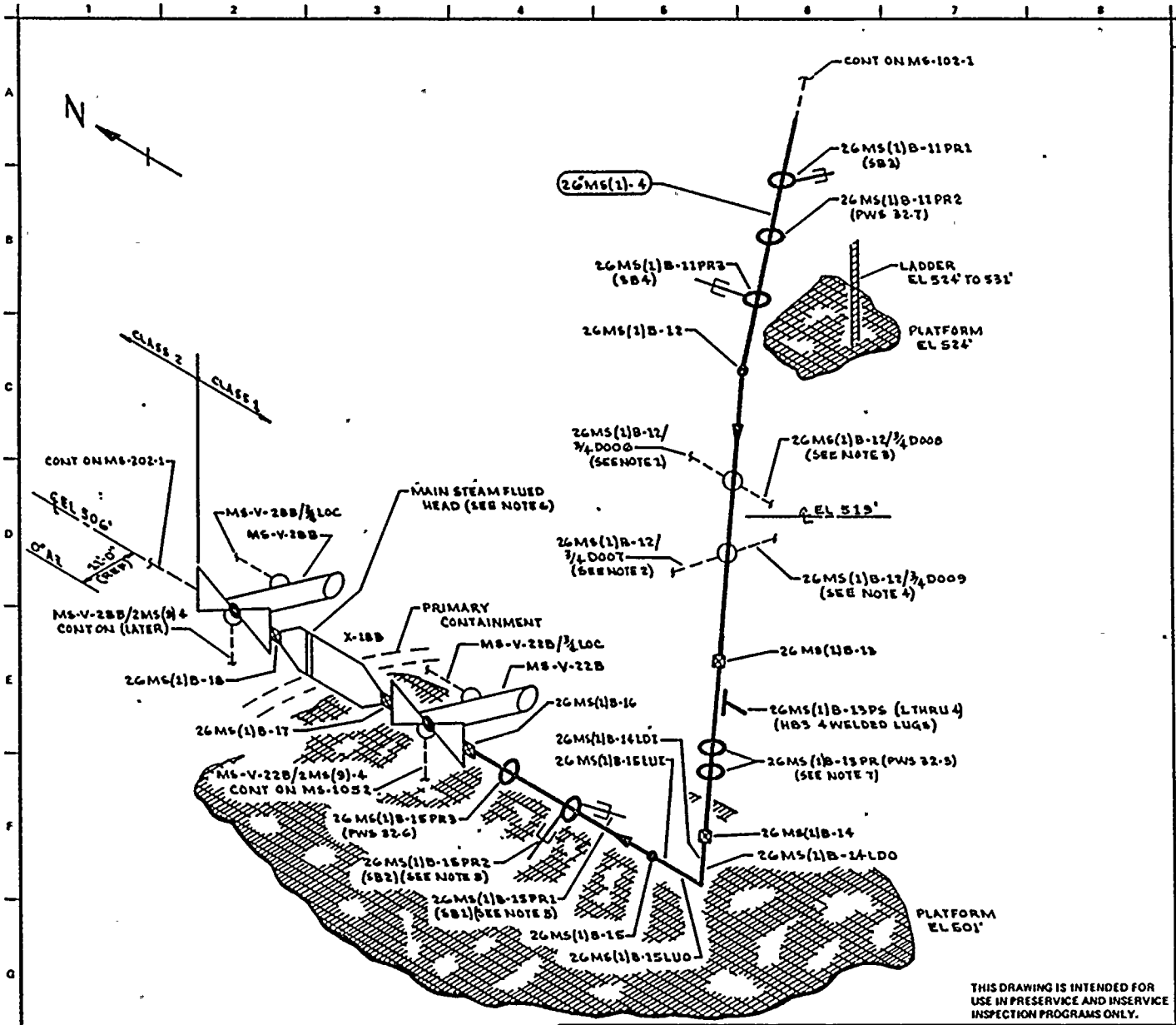
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D TIMMINS | DRAWN: K.M.c.A. | DATE: 1-16-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE B

DWG NO: MS-102-1 | REV 2



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-39a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-39b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (38a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-38b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. ACCESS TO WELD 26MS(1)B-15 REQUIRES REMOVAL OF COLLAR FOR 26MS(1)B-15PR1 & 26MS(1)B-15PR2.
6. FOR EXAM OF MAIN STEAM FLUED HEAD SEE DWG MS-101-2.
7. ACCESS TO WELD 26MS(1)B-14 IS RESTRICTED BY PWS 32-5.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 992	131 C 8403
131 C 7732	131 C 8028
131 C 8047	131 C 8029
131 C 8501	131 C 8030

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMA	DCJ	DRB
A	4-21-78	ISSUED FOR INFORMATION ONLY	KMA	DCJ	DRB

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D TIMMING	DRAWN: KMA	DATE: 1-17-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE B

DWG NO: MS-102-2 REV 0

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
26MS(1)B-1								
	NZ/TRANSITION	B-J	VOL	UTP-10	UT-104			
			SUR	PTP-1				
26MS(1)B-2								
	TRANSITION/PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-3								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-3LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-3LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-4LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-4LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-4								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
PWS-32-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)B-5								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-HB-1(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-26	UT-4			
			SUR	PTP-1				
MS-HB-1								
	HANGER	B-K-2	VT-3	QCS&I-002				
MS-SB-6								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-SB-7								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-32-2								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)B-5/10RCIC(12)-4								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-6LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-6LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-7LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-7LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-8								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-8LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-8LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
26MS(1)B-9LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-9LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-9								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
PWS-32-3								
	WHIP RESTRAINT	N/A	N/A	N/A				SEE NOTE #1
MS-SB-5								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)B-9/8MSR-5B								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-5B1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-5B2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-5B-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-5B-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-5B-BDY								
	VALVE BODY	B-G-2	VT-1	QCS&I-002				
26MS(1)B-9/8MSR-4B								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-4B1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
8MSR-4B2								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-4B-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-4B-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-4B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
MS-HB-2								
	PIPE HANGER	B-K-2	VT-3	QCS&I-002				
26MS(1)B-9/8MSR-3B								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-3B1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-3B2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-3B-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-3B-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-3B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)B-9/8MSR-2B								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-2B1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-2B2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				

WNP-02
INTFRVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
8MSR-2B-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-2B-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-2B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)B-9/8MSR-1B								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-1B1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-1B2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-1B-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-1B-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-1B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
PWS-32-4								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)B-10								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-10LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-10LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-11LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
26MS(1)B-11LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-11								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-SB-3								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-37-7								
	PWS	N/A	N/A	N/A				SEE NOTE #1
MS-SB-4								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)B-12								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-12/3/4-D006								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)B-12/3/4-D008								
	INSTR. CONN	B-P	VT-2	QCS&I-002				
26MS(1)B-12/3/4-D007								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)B-12/3/4-D009								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)B-13								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-HB-3(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-26	UT-4			
			SUR	PTP-1				
MS-HB-3								
	HANGER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

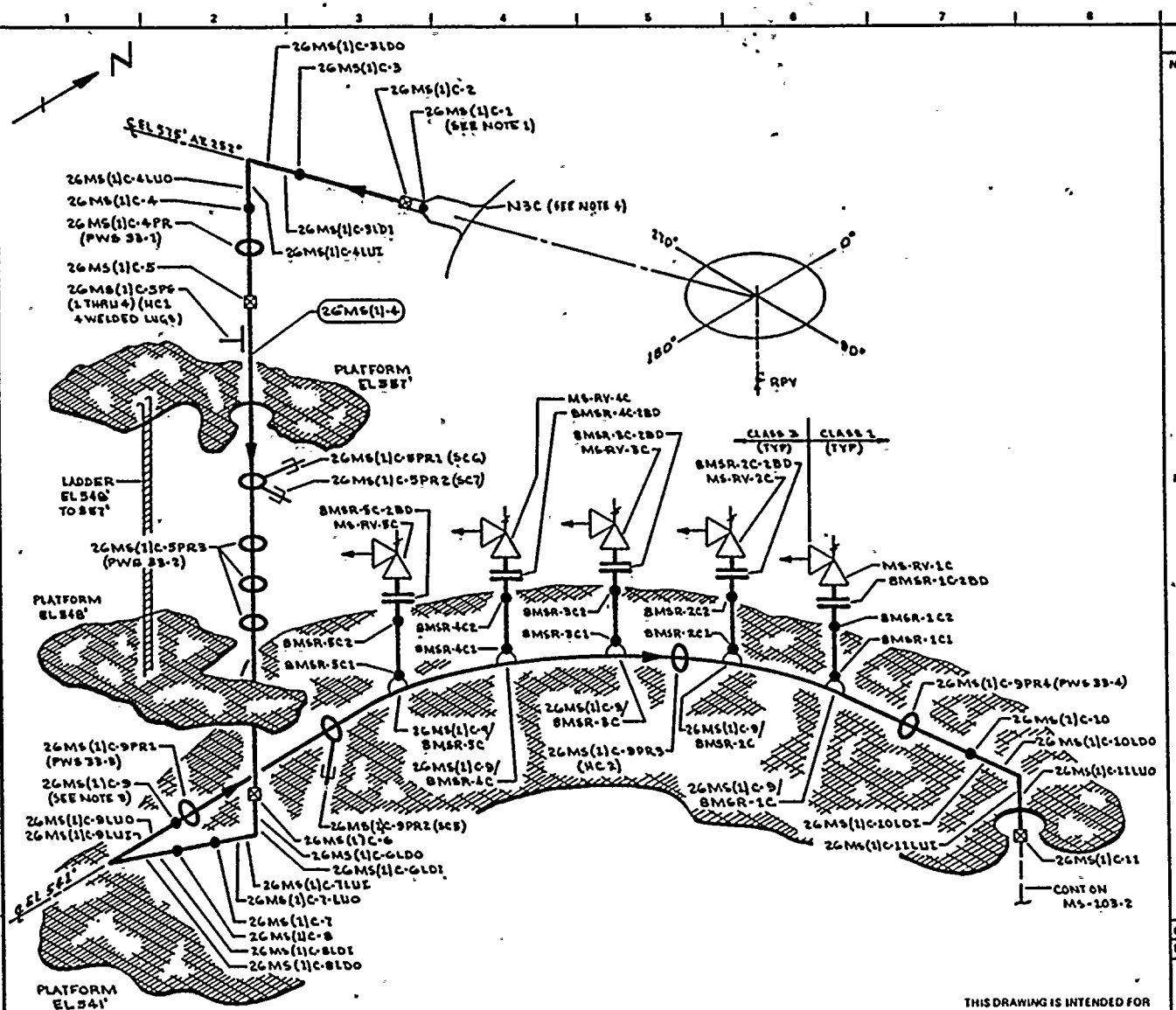
WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
PWS-32-5								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)B-14								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-14LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-14LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-15LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-15LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)B-15								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-SB-1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-SB-2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-32-6								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS-(1)B-16								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-V-22B/2MS(9)-4								
	DRAIN CONN	B-J	SUR	PTP-1				
MS-V-22B/3/4LOC								
	LEAK OFF CONN	B-P	VT-2	OCS&I-002				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-V-22B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-V-22B-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)B-17	VALVE TO PENE	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
MS FLUED HEAD B	FLUED HEAD WELD	B-K-1	VOL SUR	UTP-10 PTP-1	UT-40			SEE MS-101-3
26MS(1)B-18	PENE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
MS-V-28B/2MS(9)-4	DRAIN CONN	B-J	SUR	PTP-1				
MS-V-28B/3/4LOC	LEAK OFF CONN	B-P	VT-2	QCS&I-002				
MS-V-28B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-V-28B-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
MS-PB-102	MS PRESS BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. WELD 26MS(1)C-1 UTILIZES CAL BLOCK UT-10A.
2. ACCESS TO WELDS 26MS(1)C-1 THRU 26MS(1)C-8 REQUIRES TEMPORARY SCAFFOLDING.
3. ACCESS TO WELD 26MS(1)C-9 REQUIRES REMOVAL OF 26MS(1)C-9PR1.
4. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-102.

REFERENCES:

GENERAL ELECTRIC DRAWINGS:

761 E 992	131 C 8403
131 C 7733	131 C 8028
131 C 8047	131 C 8029
131 C 8501	131 C 8030

CBI NUCLEAR CO.

88, REV 3, N3 NOZZLE

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K.M.C.A. DATE: 1-18-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

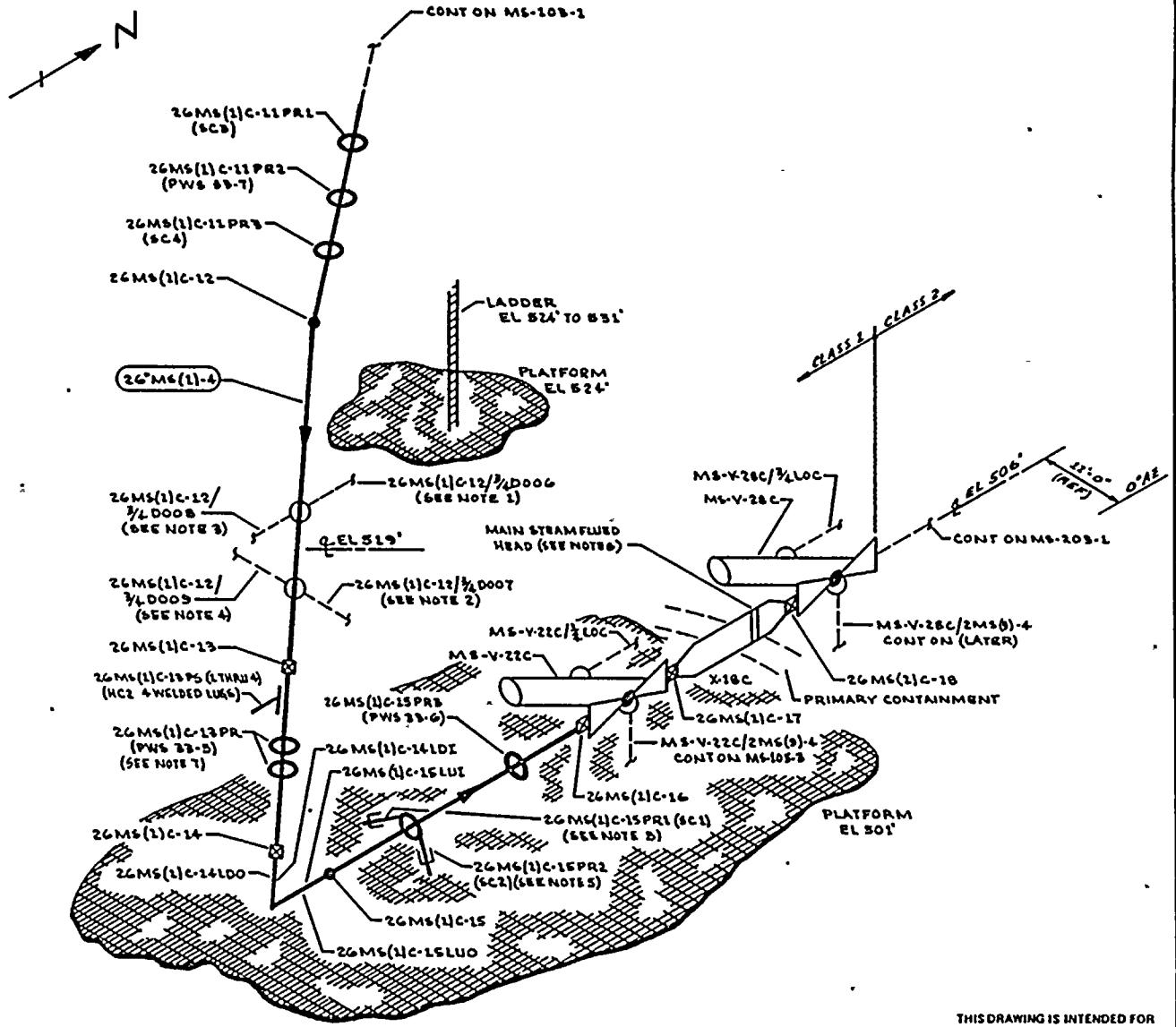
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4
8"MSR-C	8	160	0.906	SA 106 GR B	CS	UT-3A

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE C

DWG NO: MS-102-1 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	8-30-79	ADDED NOTE 4	KMA	[illegible]	[illegible]
1	5-10-78	CAL BLOCK REFERENCE CHANGED (FOR 8" PIPING)	KMA	[illegible]	DR [illegible]
0	11-7-78	ISSUED FOR USE	KMA	[illegible]	[illegible]
A	6-11-78	ISSUED FOR INFORMATION ONLY	KMA	DCJ	[illegible]



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-71a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-71b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-70a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-70b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. ACCESS TO WELD 26MS(1)C-15 REQUIRES REMOVAL OF 26MS(1)C-15PR1 & 26MS(1)C-15PR2
6. FOR EXAM OF MAIN STEAM FLUED HEAD SEE DWG MS-101-3.
7. ACCESS TO WELD 26MS(1)C-14 IS RESTRICTED BY PWS 33-5.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 992	131 C 8403
131 C 7738	131 C 8028
131 C 8047	131 C 8029
131 C 8501	131 C 8030

QUALITY CLASS: 1	ASME CODE CLASS: 1		
ENGR: D TIMMINS	DRAWN: K.M.C.A	DATE: 1-19-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 106 GRB	CS	UT-4

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE C

DWG NO: MS-103-2 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	K.M.C.A	[illegible]	[illegible]
A	6-22-78	ISSUED FOR INFORMATION ONLY	K.M.C.A	DCJ	[illegible]

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)C-1								
	NZ / TRANSITION	B-J	VOL	UTP-10	UT-104			
			SUR	PTP-1				
26MS(1)C-2								
	TRANSITION/PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-3								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-3LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-3LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-4LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-4LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-4								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
PWS-33-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)C-5								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-HC-1(W)								
	WELDED SUPPORT	B-K-1	VOL	UTP-26	UT-4			4 WELDED LUGS
			SUR	PTP-1				
MS-HC-1								
	HANGER	B-K-2	VT-3	QCS&I-002				
MS-SC-6								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-SC-7								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-33-2								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)C-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-6LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-6LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-7LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-7LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-8								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-8LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-8LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-9LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
26MS(1)C-9LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-9								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
PWS-33-3								
	PWS	N/A	N/A	N/A				SEE NOTE #1
MS-SC-5								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)C-9/8MSR-5C								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-5C1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-5C2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-5C-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
8MSR-5C-BLT								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
8MSR-5C-BDY								
	FLANGE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)C-9/8MSR-4C								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-4C1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-4C2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
8MSR-4C-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-4C-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-4C-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)C-9/8MSR-3C								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-3C1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-3C2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-3C-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-3C-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-3C-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
MS-HC-2								
	PIPE HANGER	B-K-2	VT-3	QCS&I-002				
26MS(1)C-9/8MSR-2C								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-2C1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				
8MSR-2C2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-23			
			SUR	PTP-1				
8MSR-2C-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-2C-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-RV-2C-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)C-9/8MSR-1C	PIPE TO SWL	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
8MSR-1C1	SWL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
8MSR-1C2	PIPE TO FLANGE	B-J	VOL SUR	UTP-10 PTP-1	UT-24			
8MSR-1C-2BD	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-1C-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-1C-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
PWS-33-4	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)C-10	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)C-10LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)C-10LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)C-11LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)C-11LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)C-11	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-4			

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-SC-3								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-33-7								
	PWS	N/A	N/A	N/A				SEE NOTE #1
MS-SC-4								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)C-12								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-12/3/4-D006								
	INST CONN	B-P	VT-2	QCS&I-002				
26MS(1)C-12/3/4-D008								
	INST CONN	B-P	VT-2	QCS&I-002				
26MS(1)C-12/3/4-D007								
	INST CONN	B-P	VT-2	QCS&I-002				
26MS(1)C-12/3/4-D009								
	INST CONN	B-P	VT-2	QCS&I-002				
26MS(1)C-13								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-HC-2(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-26	UT-4			
			SUR	PTP-1				
MS-HC-2								
	HANGER	B-K-2	VT-3	QCS&I-002				
PWS-33-5								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)C-14								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-14LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				

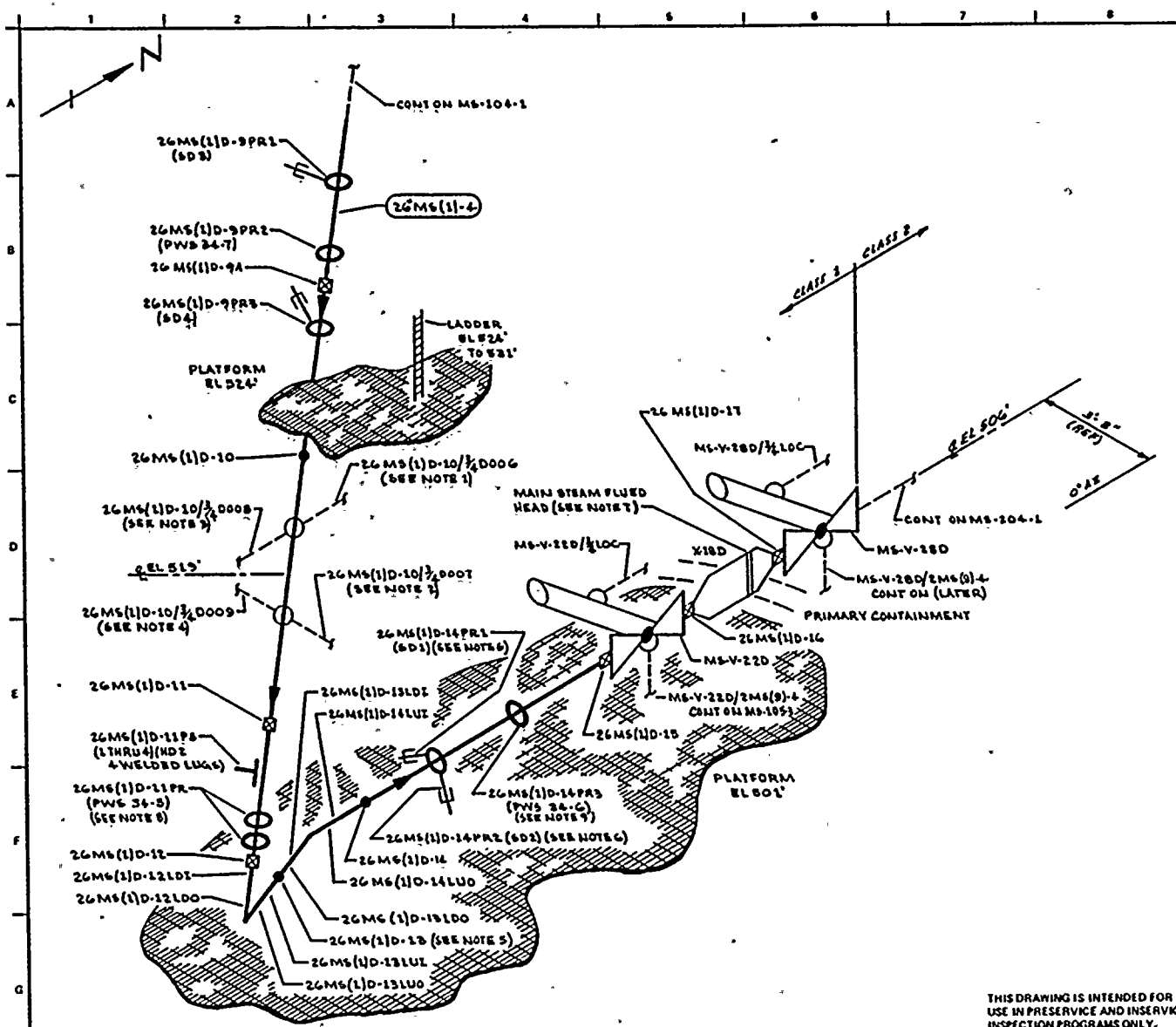
WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
26MS(1)C-14LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-15LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-15LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)C-15								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-SC-1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-SC-2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-33-6								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)C-16								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-V-22C/2MS(9)4								
	DRAIN CONN	B-J	SUR	PTP-1				
MS-V-22C/3/4LOC								
	LEAK OFF CONN	B-P	VT-2	QCS&I-002				
MS-V-22C-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-V-22C-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)C-17								
	VALVE TO PENE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS FLUED HEAD C								
	FLUED HEAD WELD	B-K-1	VOL SUR	UTP-10 PTP-1	UT-40			SEE MS-101-3
26MS(1)C-18								
	PENE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
MS-V-28C/2MS(9)-4								
	DRAIN CONN	B-J	SUR	PTP-1				
MS-V-28C/3/4LOC								
	LEAK OFF CONN	B-P	VT-2	QCS&I-002				
MS-V-28C-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-V-28C-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
MS-PB-103								
	MS PRESS BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-41a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-41b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-70c) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-70a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. WELD 26MS(1)D-13 IS FITTING TO FITTING.
6. ACCESS TO WELD 26MS(1)D-14 REQUIRES REMOVAL OF 26MS(1)D-14PR1 & 26MS(1)D-14PR2.
7. FOR EXAM OF MAIN STEAM FLUED HEAD SEE DWG MS-101-3.
8. ACCESS TO WELD 26MS(1)D-12 IS RESTRICTED BY PWS 34-5.
9. ACCESS TO WELD 26MS(1)D-15 IS RESTRICTED BY PWS 34-6.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 992	131 C 8048
131 C 7734	131 C 8030
131 C 8403	131 C 8021
131 C 8501	

NO	DATE	REVISION	BY	CHKD	APPVD
1	8-30-79	ADDED FIELD WELD 26MS(1)D-9A IN B-2	KMcA		
0	11-27-78	ISSUED FOR USE	KMcA		
A	4-23-78	ISSUED FOR INFORMATION ONLY	KMcA	DCS	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: K McA | DATE: 1-23-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

MAIN STEAM LINE D

DWG NO: MS-104-2 | REV 1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
26MS(1)D-1								
	NZ / TRANSITION	B-J	VOL	UTP-10	UT-104			
			SUR	PTP-1				
26MS(1)D-2								
	TRANSITION/PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-3								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-3LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-3LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-4LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-4LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-4								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
PWS-34-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)D-5								
	PIPE TO SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-HD-1(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-26	UT-4			
			SUR	PTP-1				
MS-HD-1								
	HANGER	B-K-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
PWS-34-2	PWS	N/A	N/A	N/A				SEE NOTE #1
MS-SD-6	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-SD-7	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)D-6	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-6LDI	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-6LDO	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-7LUI	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-7LUO	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-SD-5	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)D-7	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-7/8MSR-4D	PIPE TO SWL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
8MSR-4D1	SWL TO PIPE	B-J	VOL	UTP-10	UT-24			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
8MSR-4D2								
	PIPE TO FLANGE	B-J	VOL SUR	UTP-10 PTP-1	UT-24			
8MSR-4D-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-4D-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-4D-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
PWS-34-3								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)D-7/8MSR-3D								
	PIPE TO SWL	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
8MSR-3D1								
	SWL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-24			
8MSR-3D2								
	SWL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-24			
8MSR-3D-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-3D-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-3D-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)D-7/8MSR-2D								
	PIPE TO SWL	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
8MSR-2D1								
	SWL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-24			
8MSR-2D2								
	PIPE TO FLANGE	B-J	VOL SUR	UTP-10 PTP-1	UT-24			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
8MSR-2D-2BD	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-2D-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-2D-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
PWS-34-4	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)D-7/8MSR-1D	PIPE TO SWL	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
8MSR-1D1	SWL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-24			
8MSR-1D2	PIPE TO FLANGE	B-J	VOL SUR	UTP-10 PTP-1	UT-24			
8MSR-1D-2BD	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-1D-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-RV-1D-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)D-8	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)D-8LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)D-8LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			
26MS(1)D-9LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-4			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
26MS(1)D-9LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-9								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-SD-3								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-34-7								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)D-9A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-SD-4								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)D-10								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-10/3/4D006								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)D-10/3/4D008								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)D-10/3/4D007								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)D-10/3/4D009								
	INSTR CONN	B-P	VT-2	QCS&I-002				
26MS(1)D-11								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-HD-2(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-26	UT-4			
			SUR	PTP-1				
MS-HD-2								
	HANGER	B-K-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
PWS-34-5								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)D-12								
	PIPE TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-12LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-12LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-13LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-13LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-13								
	EL TO EL	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-13LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-13LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-14LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-14LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
26MS(1)D-14								
	EL TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-104

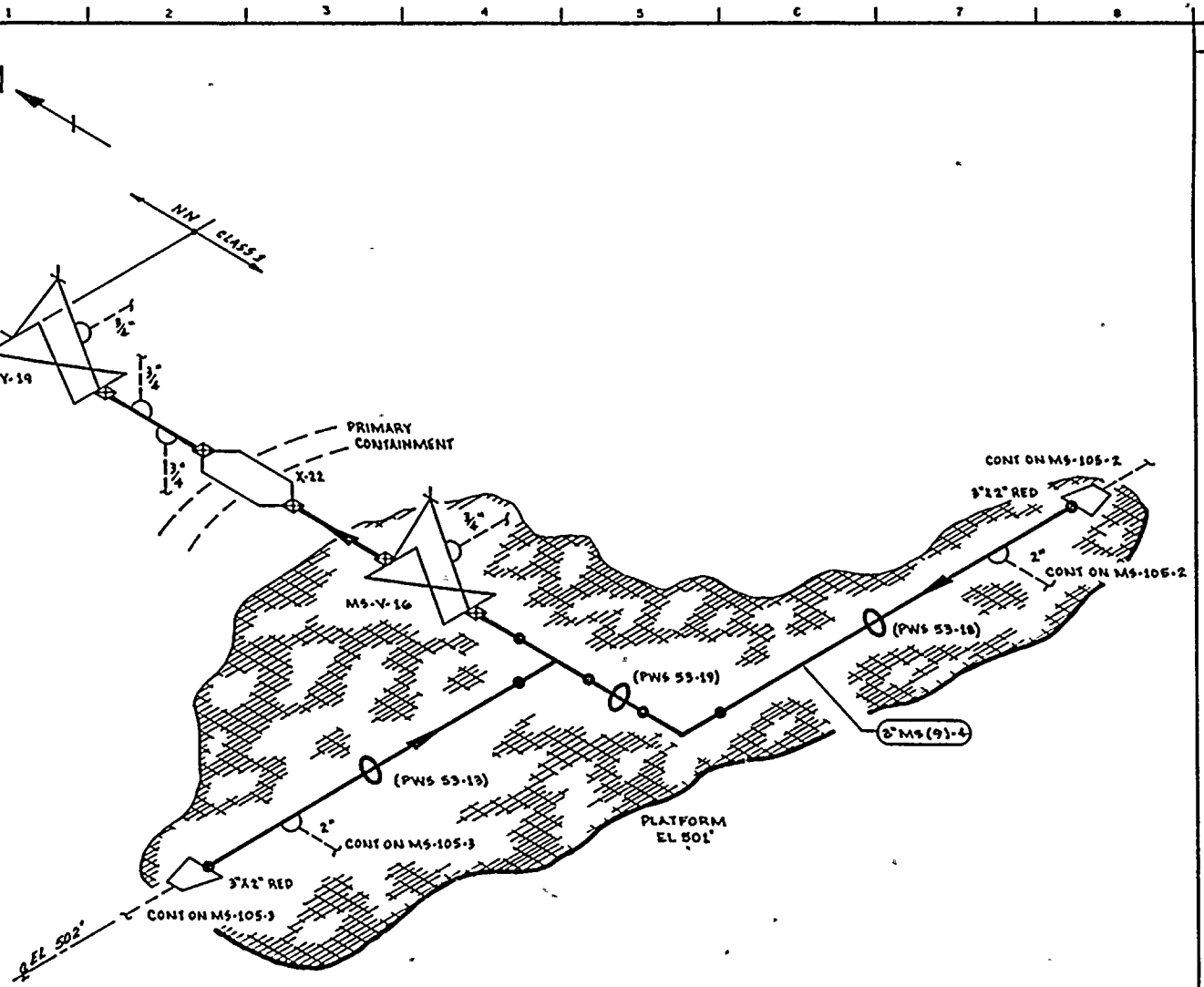
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-SD-1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-SD-2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
PWS-34-6								
	PWS	N/A	N/A	N/A				SEE NOTE #1
26MS(1)D-15								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-V-22D/2MS(9)-4								
	DRAIN CONN	B-J	SUR	PTP-1				
MS-V-22D/3/4LOC								
	LEAK OFF CONN	B-P	VT-2	QCS&I-002				
MS-V-22D-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-V-22D-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
26MS(1)D-16								
	VALVE TO PENE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS FLUED HEAD D								
	FLUED HEAD WELD	B-K-1	VOL	UTP-10	UT-40			SEE MS-101-3
			SUR	PTP-1				
26MS(1)D-17								
	PENE TO PIPE	B-J	VOL	UTP-10	UT-4			
			SUR	PTP-1				
MS-V-28D/2MS(9)-4								
	DRAIN CONN	B-J	SUR	PTP-1				
MS-V-28D/3/4LOC								
	LEAK OFF CONN	B-P	VT-2	QCS&I-002				
MS-V-28D-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
MS-V-28D-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
MS-PB-104	MS PRESS BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR CLASS VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
3. AT LOCATIONS WHERE LEAKAGE IS NORMALLY EXPECTED (E.G. VALVE STEM & PUMP SEAL LEAKOFF CONNECTIONS) VERIFY LEAKAGE COLLECTION SYSTEM OPERABILITY ONLY. NO HYDRO TEST OF COLLECTION SYSTEM IS REQUIRED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

MS-582-1.2 REV 2
MS-582-1.4 REV 5

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL. TYPE	CAL BLOCK NO
3"MS(9)-4	3	160	0.438	SA 106 GR B	CS	N/A

NO	DATE	REVISION	BY	CHKD	APPVD
0	10-11-78	ISSUED FOR USE (REDRAWN)	K.W.A		
A	5-18-78	ISSUED FOR INFORMATION ONLY	K.W.A		

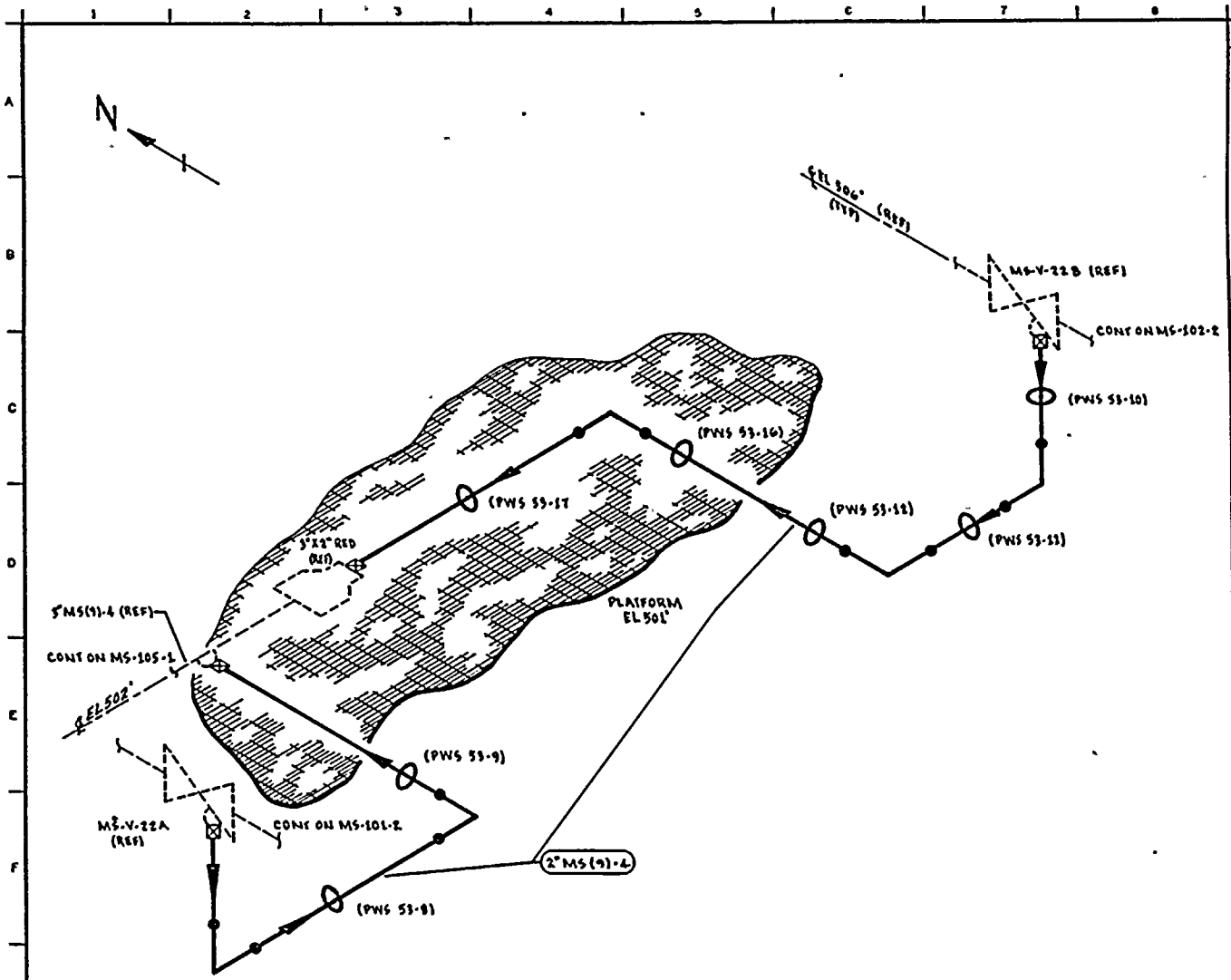
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR'D TILLMANS | DRAWN: K.W.A | DATE: 4-10-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM VALVE DRAINS

DWG NO: MS-105-1 | REV 0



NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

MS-1368-1
MS-1369-1

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
2"MS(9)-4	2	160	0.343	SA 106 GR B	CS	NA

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-98	ISSUED FOR USE (REDRAWN)	KWA		
A	5-15-98	ISSUED FOR INFORMATION ONLY	KWA		

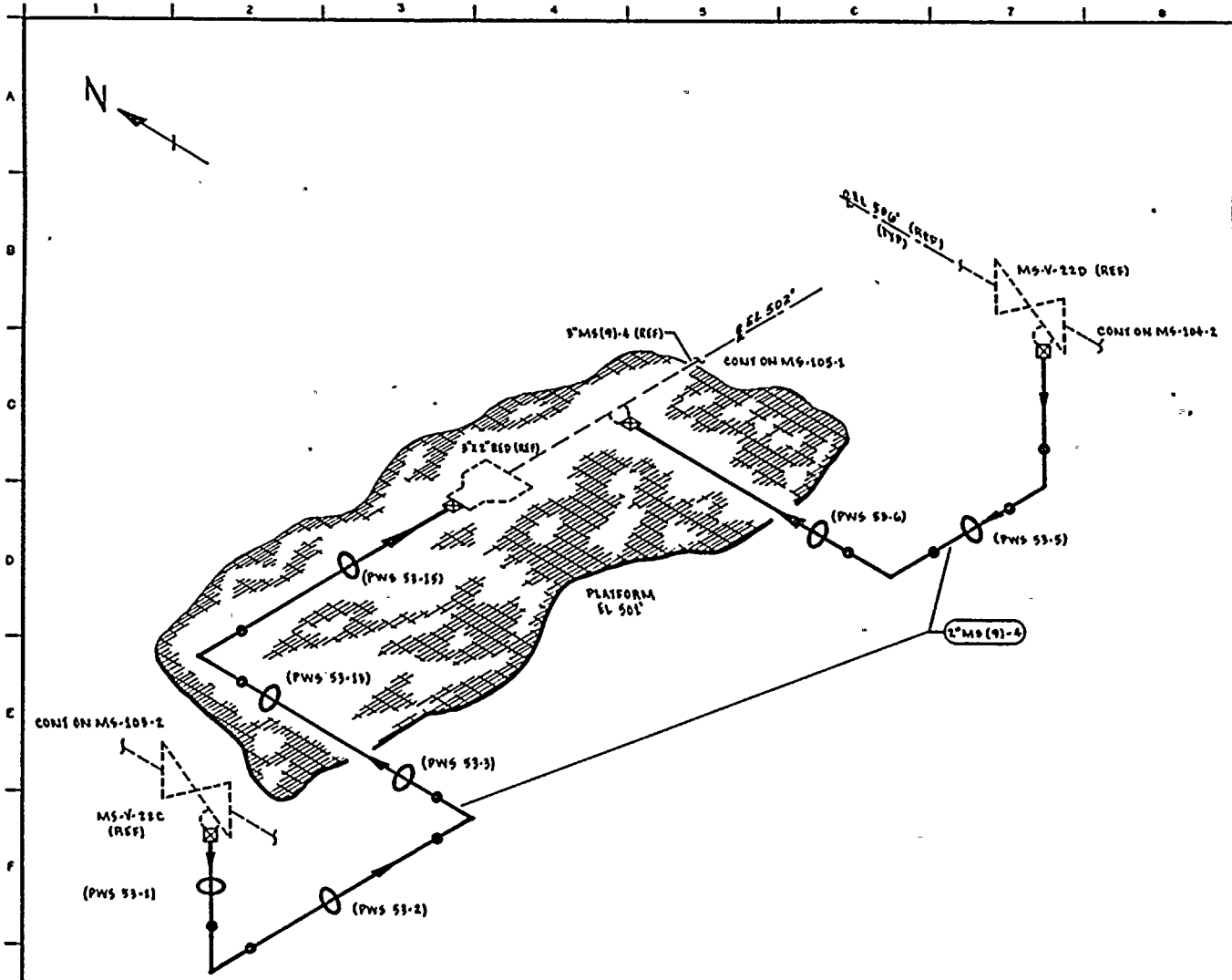
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR'D TIMMINS | DRAWN: K.McA | DATE: 4-11-98

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM VALVE DRAINS

DWG NO: MS-105-2 | REV 0



NOTES:

1. THIS DRAWING IDENTIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOVEE & REAIL ISOMETRICS

MS-1369
MS-1370

QUALITY CLASS: 1	ASME CODE CLASS. 1
ENGR: D THAMINS	DRAWN: K-M&A
	DATE: 4-11-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL. BLOCK NO
2" MS (9)-4	2	160	0.343	SA 106 GR B	CS	N/A

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM VALVE DRAINS

DWG NO: MS-105-3 | REV 0

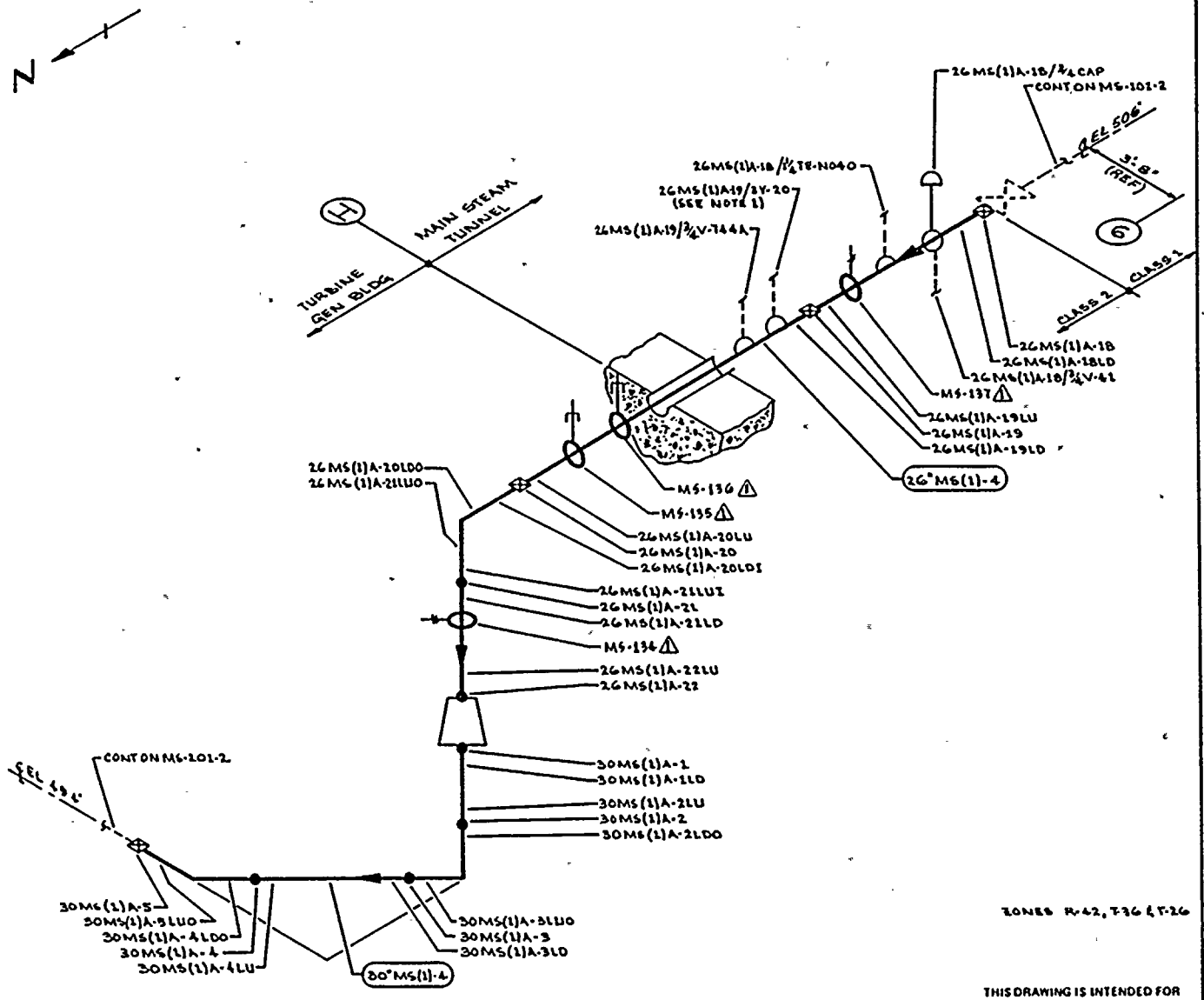
NO	DATE	REVISION	BY	CHKD	APPVD
0	11-29-78	ISSUED FOR USE (REDRAWN)	KMcA	GH	RJB
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMcA	GH	RJB

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(12)-4
DESCRIPTION: MS RX VES HEAD VENT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
4MS(12)-1								
	NOZ TO FLANGE	B-J	VOL	UTP-10	UT-108			
			SUR	PTP-1				
4MS(12)-1BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
4MS(12)-2								
	FLANGE/REDUCER	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
MS-PB-106								
	MS PRESS BNDRY	B-P	VT-2	QCS&I-002				

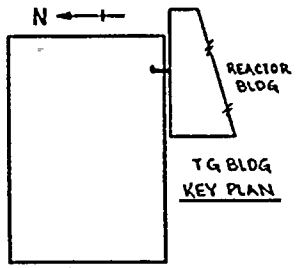


NOTES:

1. A 2" CONNECTION WITH VISUAL (VT-2) EXAM TERMINATING AT 3"MS-V-20.

REFERENCES

BOVEE & CRAIL ISOMETRIC MS-528-1-2 REV 4



ZONES R-42, T-36 & T-26

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 155 CL1 KCF 70	C6	UT-3
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	C6	UT-1

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-6-80	DELETED WELDS 30MS(1)A-2LDI, 3LUI, 4LDI, 5LUI & MODED	K.M.A	JRS	RGP
0	1-9-79	ISSUED FOR USE	K.M.A	JRS	RGP
A	4-24-78	ISSUED FOR INFORMATION ONLY	K.M.A	DCJ	RGP

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: D TIMMINS | DRAWN: K.M.A. | DATE: 2-1-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

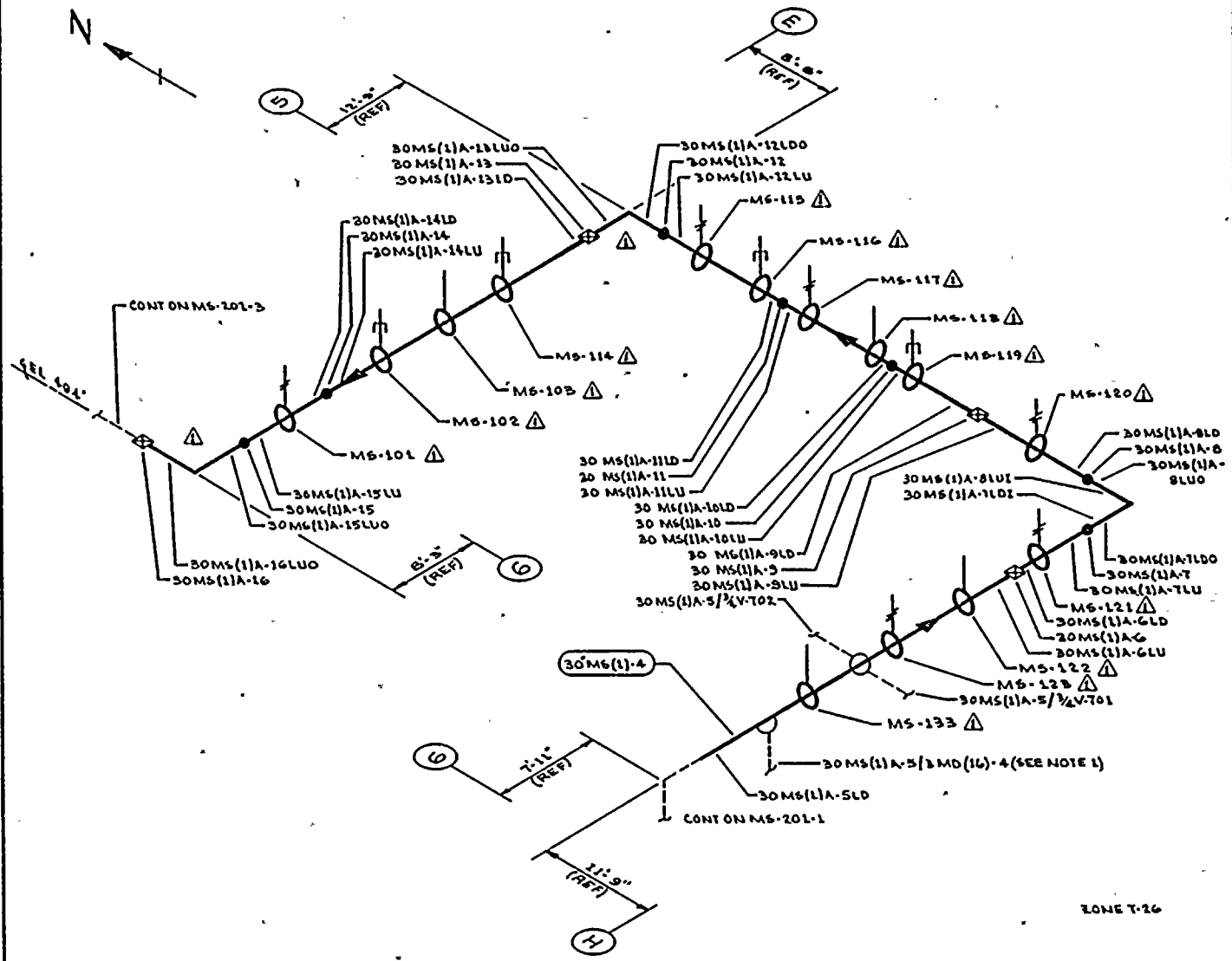
RICHLAND WASHINGTON 99352

WNP 2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-201-1 | REV /

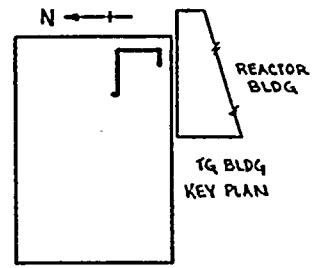


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH DRAINAGE SYSTEM TO VALVES MS-V-72 & MS-V-73.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-528-4-6 REV 5



QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR. D TIMMINS	DRAWN: K.M.C.A. DATE: 2-1-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS (1)-4	30	XXX	1.25	SA 155 CL 1 KCF 70	CS	UT-1

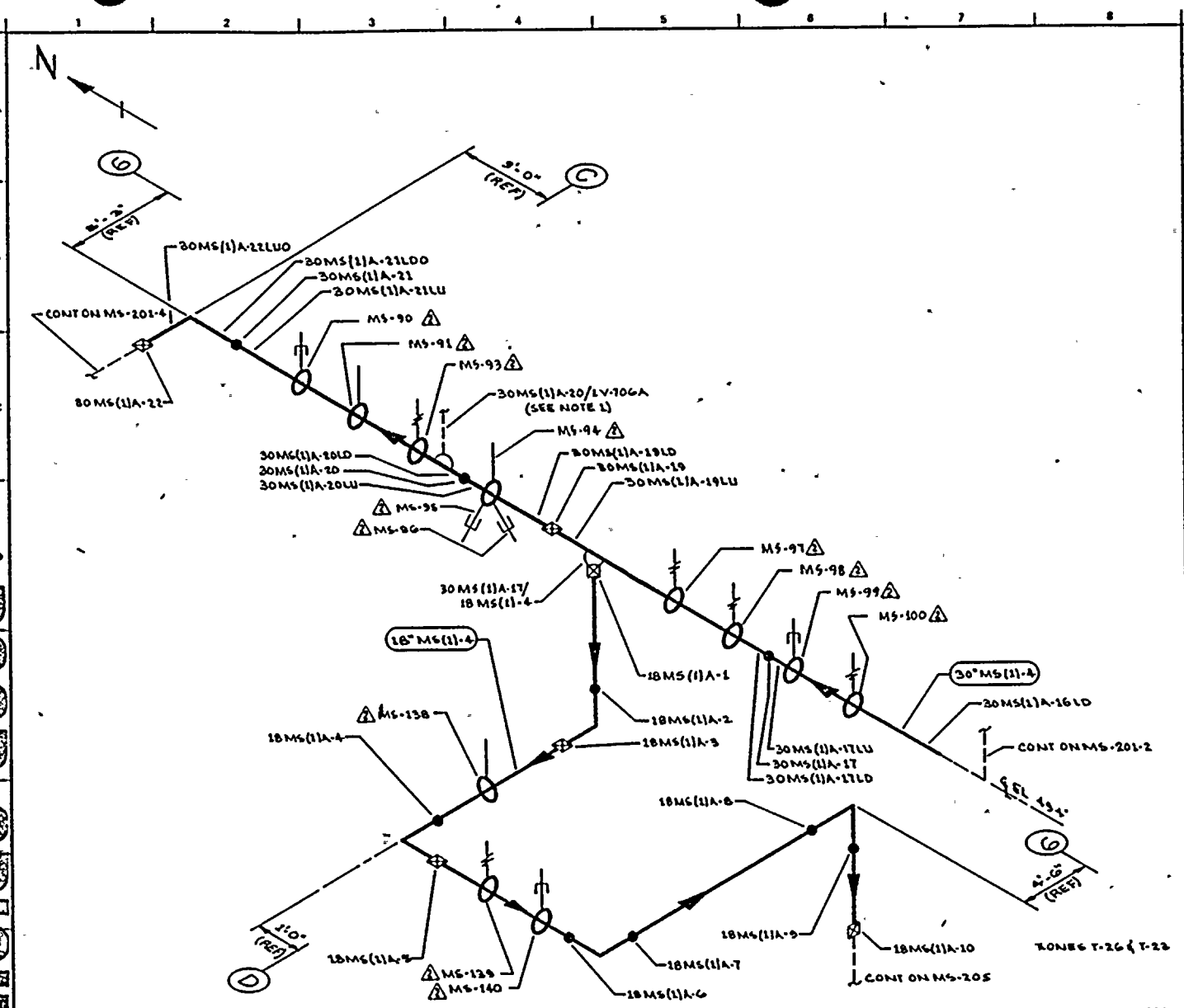
NO	DATE	REVISION	BY	CHKD	APPVD
2	11-5-80	REVISED AS NOTED	K.M.C.A.	JFR	[illegible]
0	1-9-79	ISSUED FOR USE	K.M.C.A.	[illegible]	[illegible]
A	4-20-78	ISSUED FOR INFORMATION ONLY	K.M.C.A.	[illegible]	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-201-2 REV 1

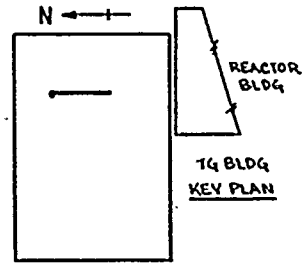


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-106A TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-526-7.10 REV 3



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
18"MS(1)-4	18	80	0.938	SA 106 GR B	CS	UT-12

NO	DATE	REVISION	BY	CHKD	APPVD
2	11-5-80	DELETED WELDS 22LDT & 22LUT & AS NOTED	KMA	RK	RWP
1	9-13-79	DELETED TEE & CORRESPONDING WELDS. ADDED WOL KU D-4	KMA	RK	RWP
0	1-9-19	ISSUED FOR USE	KMA	RK	RWP
A	12078	ISSUED FOR INFORMATION ONLY	KMA	RK	RWP

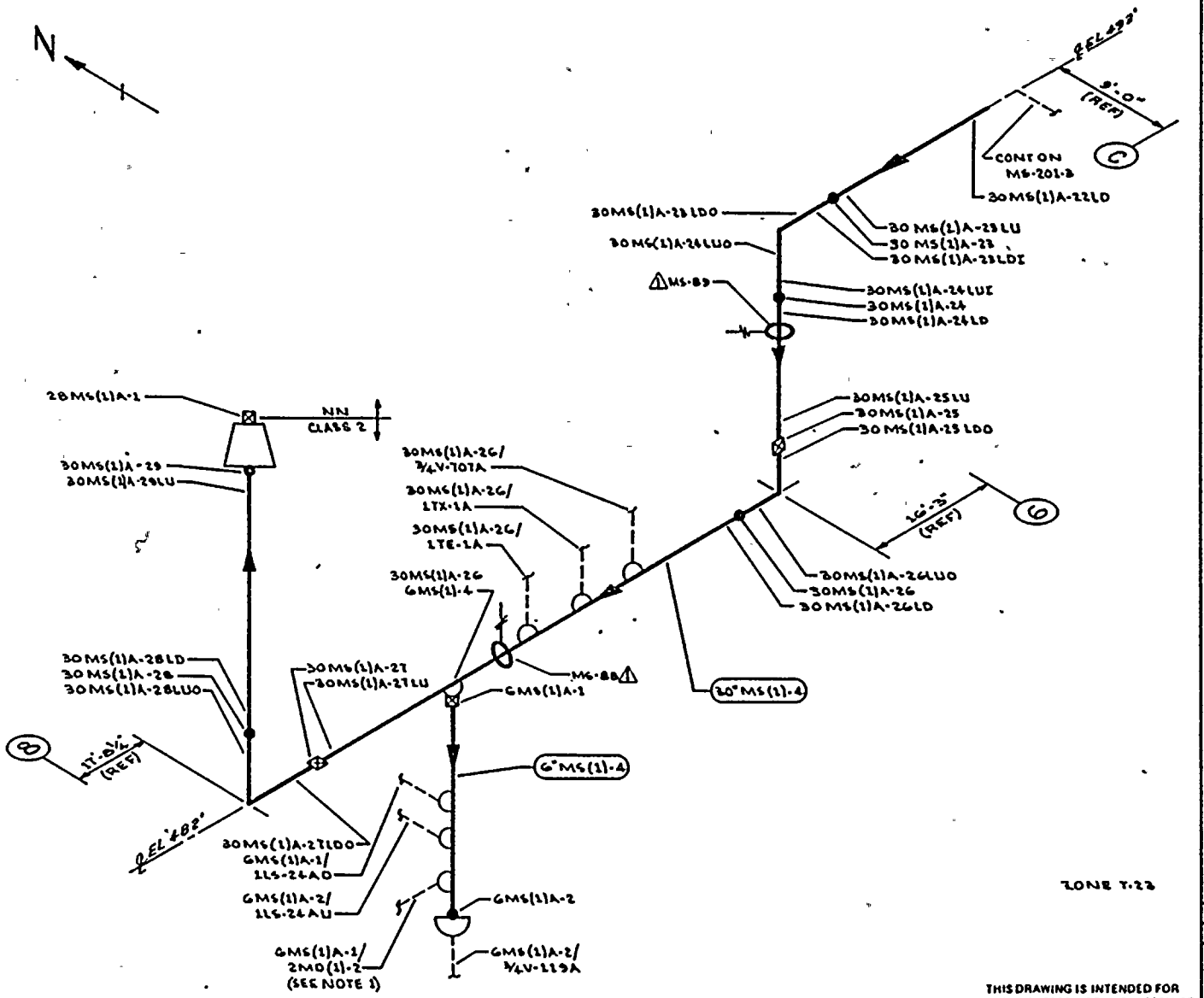
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: D TIMMINS | DRAWN: K. McA | DATE: 2-1-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-201-3 REV 2



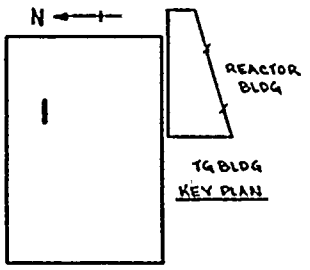
NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVES MD-V-120A & MD-V-117A.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

MS-528-7.10	REV 3
MS-528-11.12	REV 3
MS-528-13	REV 3



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL 1 KCF 70	CS	UT-1
6"MS(1)-4	6	80	0.432	SA 106 GR B	CS	NA
28"MS(1)-4	28	XXX	1.420	SA 155 CL 1 KCF 70	CS	UT-2

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-5-80	DELETED WELDS 25LDI, 26LUI, 27LDI & 28LUI & MADE	KMA	RBK	RWP
0	1-9-79	ISSUED FOR USE	KMA	RBK	RWP
A	4-20-78	ISSUED FOR INFORMATION ONLY	KMA	RBK	RWP

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: D TIMMINS | DRAWN: K-McA | DATE: 1-25-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-201-4 | REV 1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)A-18								
	VALVE TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-18LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-18/3/4CAP								
	CAPPED CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)A-18/3/4V-41								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)A-18/5/4TE-N040								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-137								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)A-19LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-19								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-19LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-19/2V-20								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)A-19/3/4V-744A								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-136								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-135								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)A-20LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)A-20								
	PIPE TO EL	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-20LDI								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-20LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-21LDI								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-21LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-21								
	EL TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-21LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
MS-134								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)A-22LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)A-22								
	PIPE TO REDUCER	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)A-1								
	REDUCER TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-1LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)A-2LU	PIPE LONG SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-2	PIPE TO EL	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-2LDO	EL SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-3LUO	EL SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-3	EL TO PIPE	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-3LD	PIPE LONG SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-4LU	PIPE LONG SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-4	PIPE TO EL	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-4LUO	EL SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-5LDO	EL SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-5	EL TO PIPE	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)A-5LD	PIPE LONG SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)A-5/3MD(16)-4								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-133								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)A-5/3/4V-701								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)A-5/3/4V-702								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-123								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-122								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)A-6LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-6								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-6LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-121								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-7LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-7								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-7LDI								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-7LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
30MS(1)A-8LUI								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-8LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-8								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-8LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-120								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-9LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-9								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-9LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-119								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-10LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-10								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-10LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-118								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-117								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-11LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-11								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-11LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-116								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-115								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-12LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-12								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-12LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-13LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-13								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)A-13LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-114								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-103								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-102								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-14LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-14								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-14LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-101								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-15LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-15								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-15LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-16LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
30MS(1)A-16								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-16LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-100								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-99								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-17LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-17								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-17LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-98								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-97								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-17/18MS(1)-4								
	PIPE TO WOL	C-F	SUR	PTP-1				
18MS(1)A-1								
	WOL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)A-2								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
18MS(1)A-3								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
MS-138								
	HANGER	C-E-2	VT-3	QCS&I-002				
18MS(1)A-4								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)A-5								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
MS-139								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-140								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18MS(1)A-6								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)A-7								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)A-8								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)A-9								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)A-10								
	PIPE TO WOL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
30MS(1)A-19LU								
	PIPE SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)A-19								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-19LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-94								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-95								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-96								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-20LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-20								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-20LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-20/1V-706A								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-93								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-91								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-90								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-21LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
30MS(1)A-21								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-21LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-22LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-22								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-22LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-23LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-23								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-23LDI								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-23LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-24LUI								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-24LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-24								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)A-24LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-89								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)A-25LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-25								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-25LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-26LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-26								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-26LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-26/3/4V-707A								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)A-26/1TX-1A								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)A-26/1TE-1A								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-88								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
3-MS(1)A-26/6MS(1)-4								
	PIPE TO WOL	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

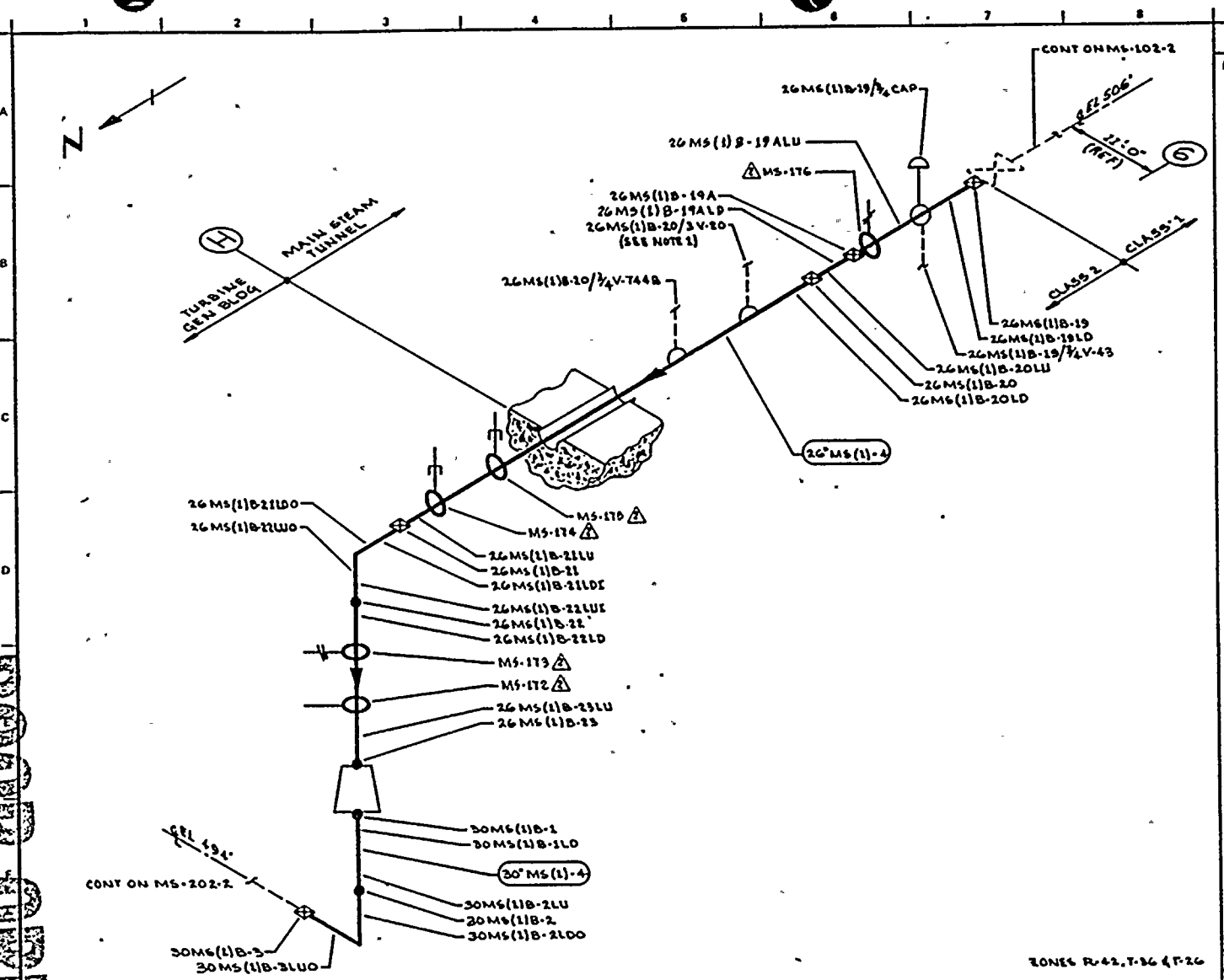
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
6MS(1)A-1								
	WOL TO PIPE	C-F	SUR	PTP-1				
6MS(1)A-1/1LS-24AD								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)A-2/1LS-24AU								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)A-1/2MD(1)-2								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)A-2								
	CAP TO PIPE	C-F	SUR	PTP-1				
6MS(1)A-2/3/4V-119A								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)A-27LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-27								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-27LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-28LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-28								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-28LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-29LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)A-29								
	PIPE TO REDUCER	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
28MS(1)A-1								
	REDUCER TO PIPE	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
MS-PB-201								
	MS PRES BNDRY	N/A	VT-2	QCS&I-002				IWC-2510

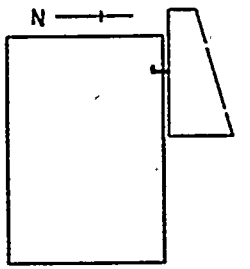


NOTES:

1. A 2" CONNECTION WITH VISUAL (VT-2) EXAM TERMINATING AT 3" MS-V-20.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-529-1-3. REV 2



ZONES R-42, T-36 & T-26

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: K. M. A. DATE: 2-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

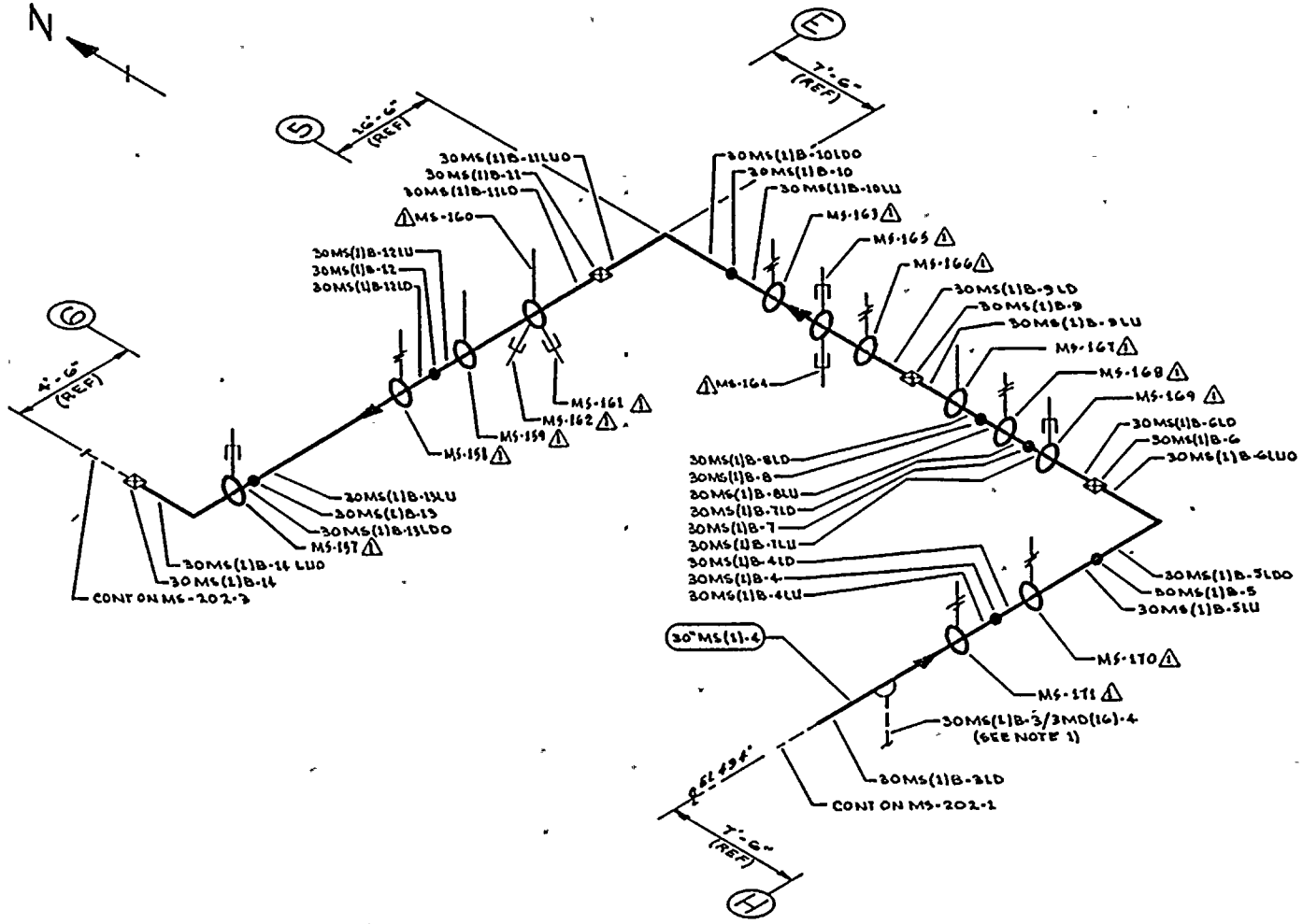
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 155 CL 1 KCF 70	CS	UT-3
30"MS(1)-4	30	XXX	1.25	SA 155 CL 1 KCF 70	CS	UT-1

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE B

DWG NO: MS-202-1 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	11-6-80	ADDED WELDS 19ALU & 19ALD. DELETED WELDS 21DZ & 21UZ	K.M.A	TMT	MWP
1	8-30-79	ADDED FIELD WELD 26MS(1)B-19A ZN B-6.	K.M.A	MWP	MWP
0	1-9-79	ISSUED FOR USE	K.M.A	MWP	MWP
A	4-24-78	ISSUED FOR INFORMATION ONLY	K.M.A	DCT	DLR



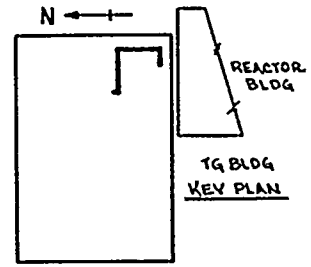
ZONE T-26

NOTES:

1. EXTEND LEAKAGE EXAM THROUGH DRAINAGE SYSTEM TO VALVES MS-V-72 & MS-V-73.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-529-4-7 REV 1



QUALITY CLASS: 1			ASME CODE CLASS: 2		
ENGR: D TIMMINS			DRAWN: K. McA		DATE: 2-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1

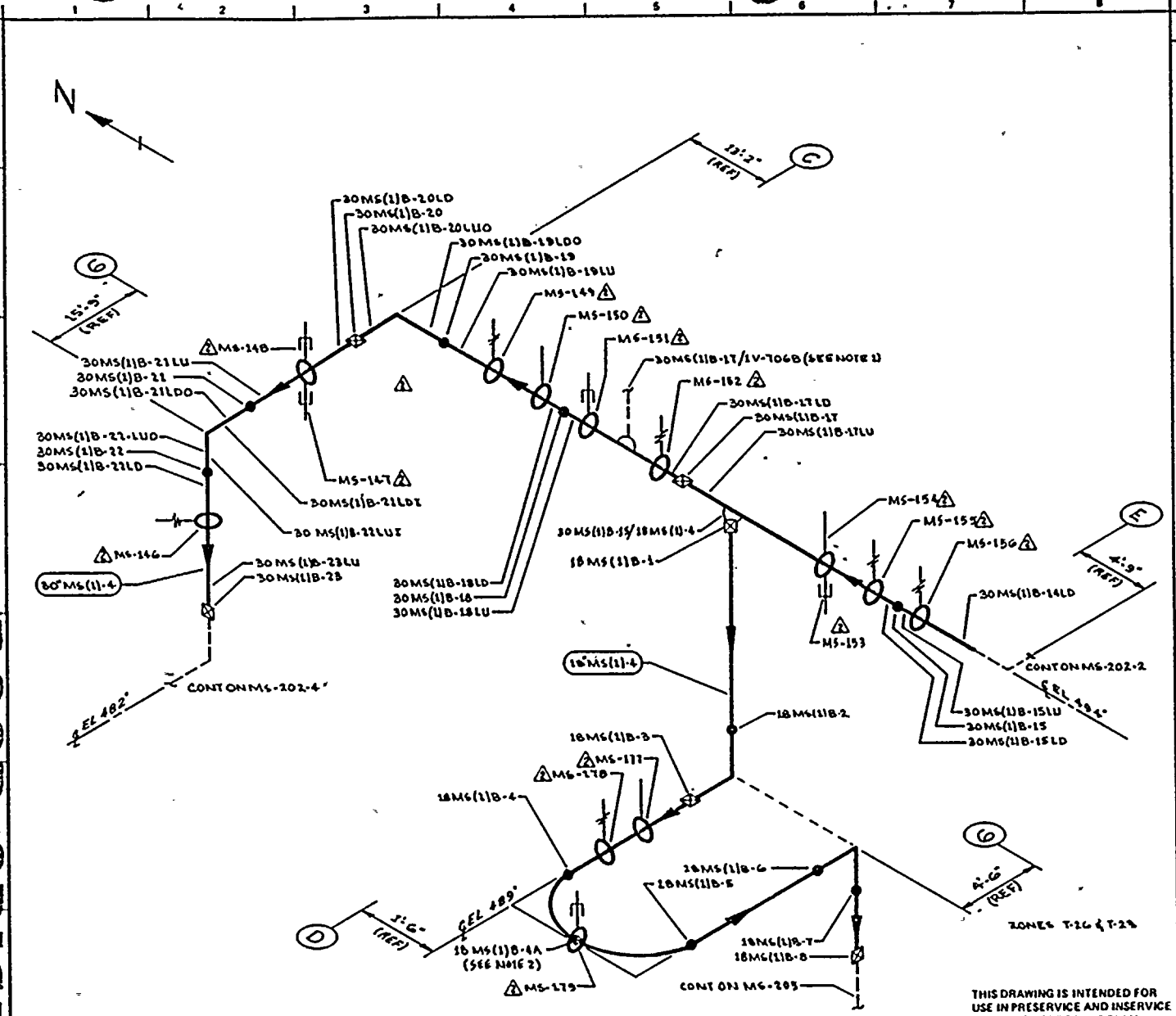
WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE B

DWG NO: MS-202-2 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-6-80	DELETED WELDS 8LDE, 6LUE, 10LDE, 11LUE, 13LDE & 14LUE	K.McA	TMK	
0	1-9-79	ISSUED FOR USE	K.McA		
A	4-20-78	ISSUED FOR INFORMATION ONLY	K.McA		

PRELIMINARY



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-1068 TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.
2. WELD 18 MS(1)B-4A IS FITTING TO FITTING.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
M6-629-8.11 REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	C6	UT-1
18" MS(1)-4	18	80	0.938	SA 106 GR B	C6	UT-12

NO	DATE	REVISION	BY	CHKD	APPVD
2	11-5-80	ADDED FIELD WELD 18MS(1)B-4A & AS NOTED	[illegible]	[illegible]	[illegible]
1	7-17-79	DELETED SEE (CROSS REFERENCING WELDS ADDED WHERE ISI IS ADDED REF ZM 96	[illegible]	[illegible]	[illegible]
0	1-9-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	12-0-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: D TIMMINS | DRAWN: [illegible] | DATE: 2-3-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE B

DWG NO: M6-202-3 | REV 2

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)B-19								
	VALVE TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-19LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-19/3/4CAP								
	CAPPED CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)B-19/3/4V-43								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-176								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)B-19ALU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-19A								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-19ALD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-20LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-20								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-20LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-20/2V-20								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)B-20/3/4V-744B								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-175								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-174								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)B-21LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-21								
	PIPE TO EL	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-21LDI								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-21LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-22LUI								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-22LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-22								
	EL TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-22LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
MS-173								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-172								
	HANGER	C-E-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)B-23LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)B-23								
	PIPE TO REDUCER	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)B-1								
	REDUCER TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)B-1LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)B-2LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)B-2								
	PIPE TO EL	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)B-2LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)B-3LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)B-3								
	EL TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)B-3LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)B-3/3MD(16)-4								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-171								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)B-4LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
30MS(1)B-4								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-4LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-170								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-5LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-5								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-5LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-6LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-6								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-6LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-169								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-7LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-7								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
30MS(1)B-7LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-168								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-8LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-8								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-8LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-167								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)B-9LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-9								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-9LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-166								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-165								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-164								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-163								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-10LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-10								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-10LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-11LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-11								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-11LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-160								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-161								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-162								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-159								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)B-12LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-12								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PT				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)B-12LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-158								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-13LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-157								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-13								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-13LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-13LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-14								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-14LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-156								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-15LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-15								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)B-15LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-155								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-154								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-153								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-15/18MS(1)-4								
	PIPE TO WOL	C-F	SUR	PTP-1				
18MS(1)B-1								
	WOL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)B-2								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)B-3								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
MS-177								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-178								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18MS(1)B-4								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)B-4A								
	EL TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
MS-179								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18MS(1)B-5								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)B-6								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)B-7								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)B-8								
	PIPE TO WOL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
30MS(1)B-17LU								
	PIPE SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-17								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-17LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-152								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-17/1V-706B								
	INSTR CONN	N/A	VT-2	QCS&I-002				
MS-151								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-18LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-18								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)B-18LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-150								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-149								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-19LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-19								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-19LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-20LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-20								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-20LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-147								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-148								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-21LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)B-21								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-21LDI								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-21LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-22LUI								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-22LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-22								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-22LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-146								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-23LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-23								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-23LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-23LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)B-24								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-24LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-145								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-24/3/4V-708B								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)B-24/1TX-1B								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)B-24/1TE-1B								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-144								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-142								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)B-24/6MS(1)-4								
	WOL TO PIPE	C-F	SUR	PTP-1				
6MS(1)B-1								
	PIPE TO WOL	C-F	SUR	PTP-1				
6MS(1)B-1/1LS-24BD								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)B-2/1LS-24BU								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)B-1/2MD(1)-2								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)B-2								
	CAP TO PIPE	C-F	SUR	PTP-1				
6MS(1)B-2/3/4V-119B								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

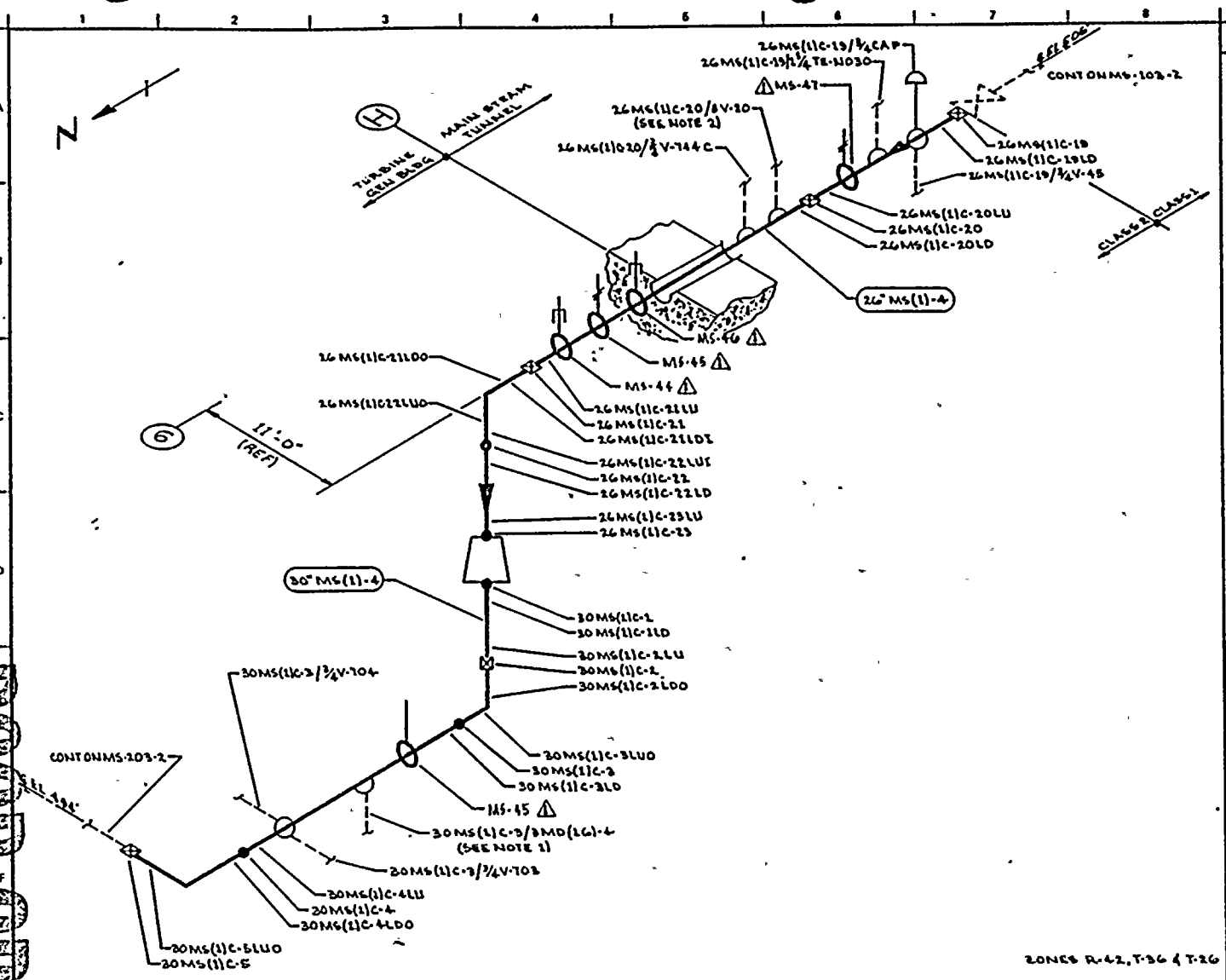
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)B-25LU	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-25	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-25LDO	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-26LUO	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-26	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-26LD	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-27LU	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-27	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-27LDO	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-28LUO	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-28	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-28LD	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)B-29LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)B-29								
	PIPE TO REDUCER	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
28MS(1)B-1								
	REDUCER TO PIPE	C-F	VOL	UTP-10	UT-2			
			SUR	PTP-1				
MS-PB-202								
	MS PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510

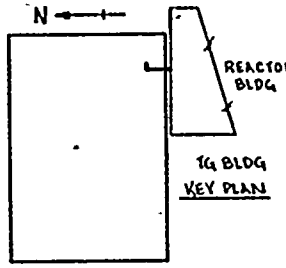


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH DRAINAGE SYSTEM TO VALVES MS-V-72 & MS-V-73.
2. A 2" CONNECTION WITH VISUAL (VT-2) EXAM TERMINATING AT 3" MS-V-20.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-630-1.3 REV 8



ZONES R-42, T-36 & T-26

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMING	DRAWN: K.M.G.A. DATE: 2-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

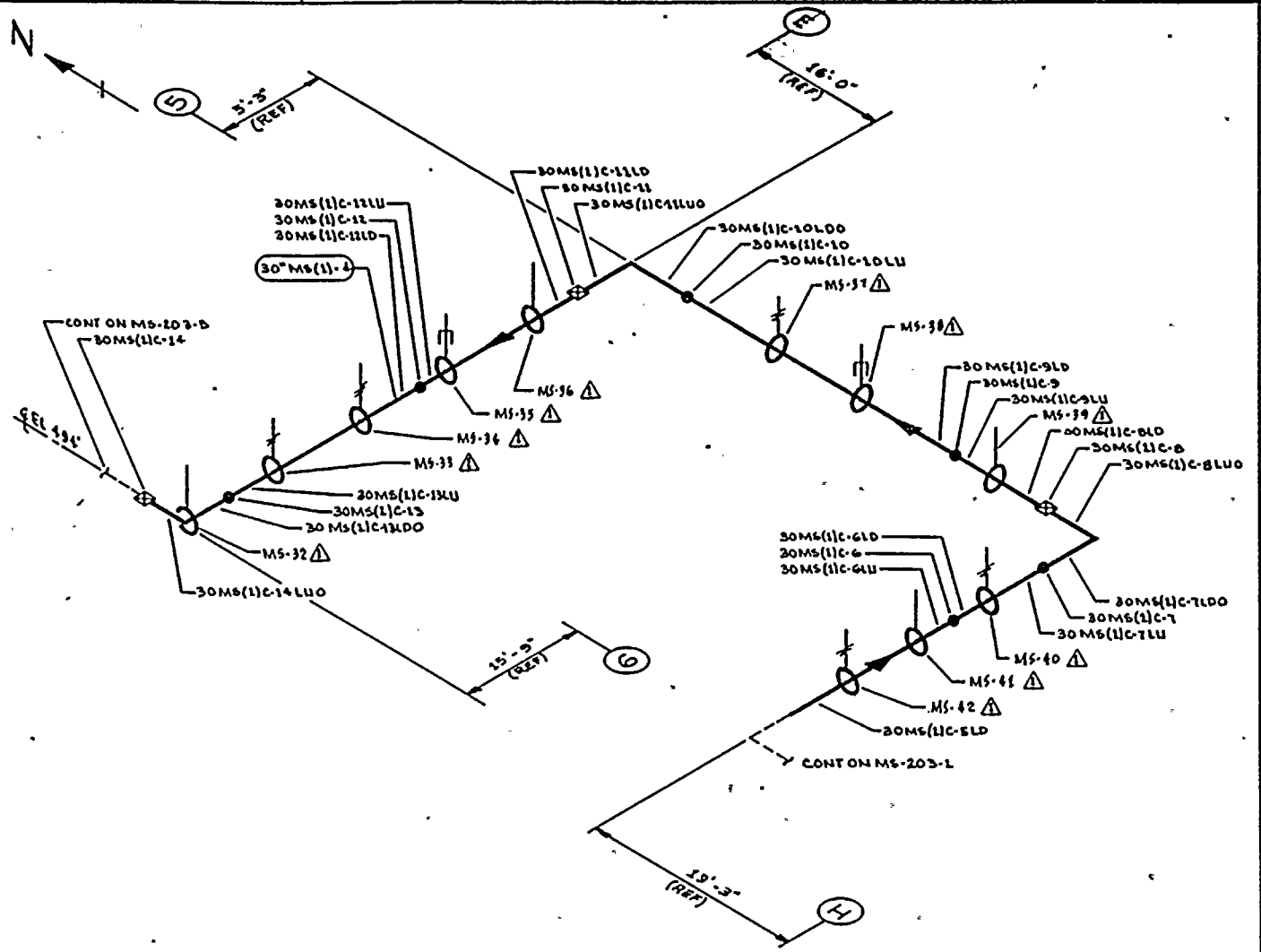
WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE C

DWG NO: MS-203-1 REV /

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 155 CL1 KCF 70	CS	UT-3
30"MS(1)-4	30"	XXX	1.25	SA155 CL1 KCF 70	CS	UT-1

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-5-80	DELETED WELDS 2LDI, 3LUI, 4LDI & 5LUI.	KMA	TEK	EAP
0	5-9-78	ISSUED FOR USE	KMA	[illegible]	[illegible]
A	4-26-78	ISSUED FOR INFORMATION ONLY	KMA	[illegible]	[illegible]

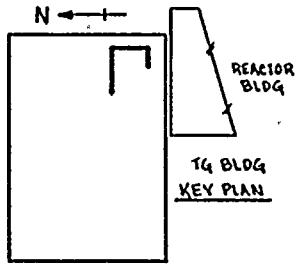


ZONE 7-26

NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-530-4.6 REV 1



1	11-5-80	DELETED WELDS 11LD, 11LU, 10LDO, 12LU, 13LDO & 14LUO CHANGED WELD 13LO TO 13LU, AS NEED	KMcA	TF	DWW
0	1-9-79	ISSUED FOR USE	KMcA	DCJ	DWW
A	4-20-78	ISSUED FOR INFORMATION ONLY	KMcA	DCJ	DR
NO	DATE	REVISION	BY	CHKD	APPVD

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30° MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	C6	UT-1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS: 2

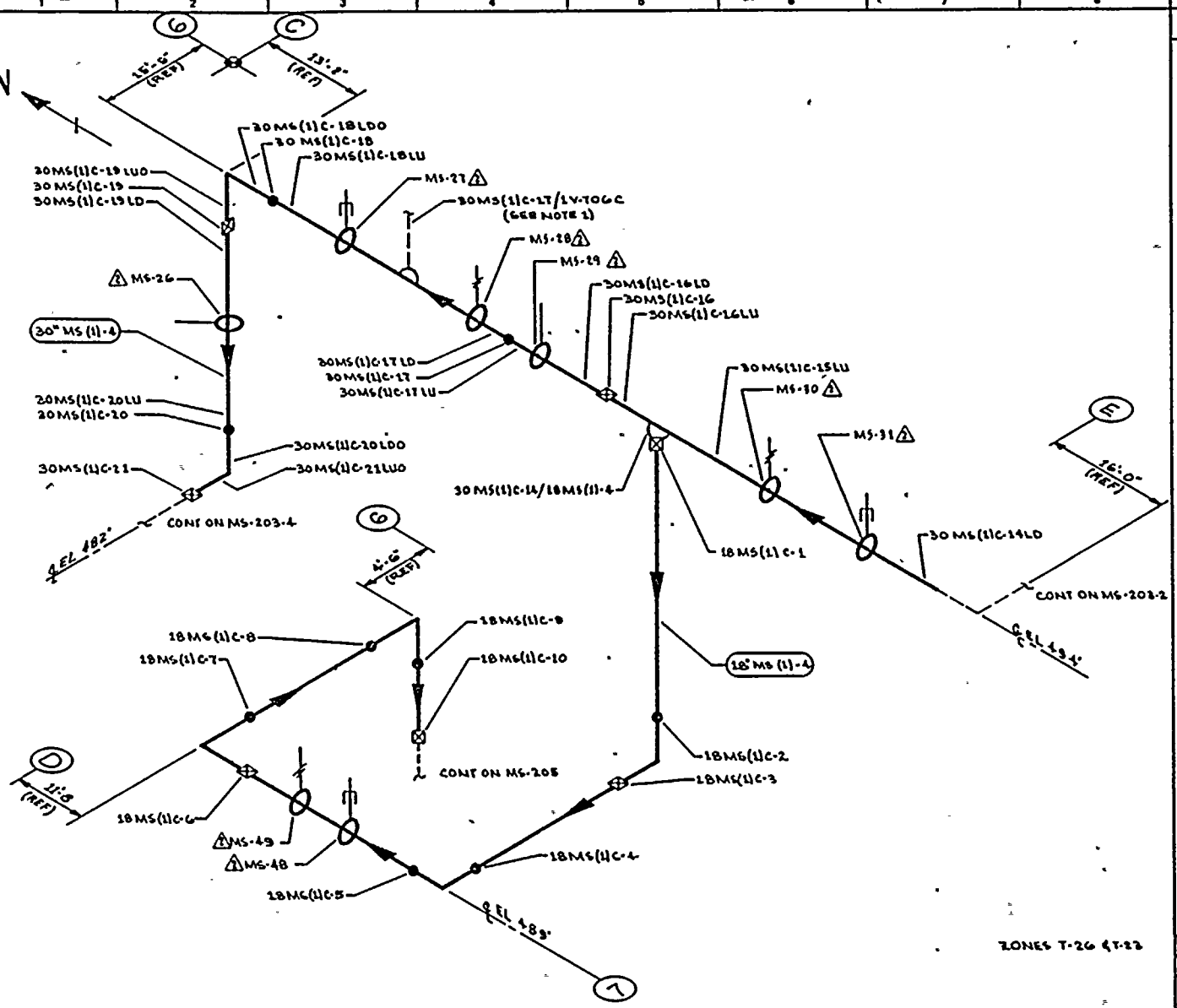
ENGR: D TIMMINS | DRAWN: K.McA | DATE: 2-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE C

DWG NO: MS-203-2 REV 1

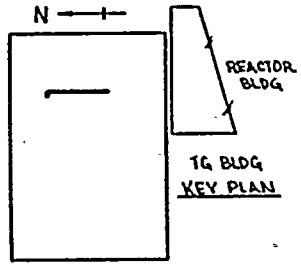


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-106C TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES

BOVEE & CRAIL ISOMETRIC
MS-530-7.10 REV 3



TG BLDG KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: K.M.C.A. DATE: 2-6-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA155 CL1 KCF 70	CS	UT-1
18"MS(1)-4	18	80	0.938	SA 106 GR B	CS	UT-12

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE C

DWG NO: MS-203-3 REV 2

NO.	DATE	REVISION	BY	CHKD	APPVD
2	11-6-80	DELETED WELDS 18LDI, 19LUI, 20LDI & 21LUI & AS NOTED	K.M.A	TR	WNP
1	9-19-79	DELETED TEE & CORRESPONDING WELDS. ADDED WOL IN C-5	K.M.A	K.M.A	WNP
0	1-9-79	ISSUED FOR USE	K.M.A	K.M.A	WNP
A	4-24-78	ISSUED FOR INFORMATION ONLY	K.M.A	K.M.A	WNP

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)C-19								
	VALVE TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-19LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-19/3/4CAP								
	CAPPED CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)C-19/3/4V-45								
	TEST. CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)C-19/5/4TEN030								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-47								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)C-20LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-20								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-20LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-20/2V-20								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)C-20/3/4V-744C								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-46								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-44								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-45								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)C-21LU	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-21	PIPE TO EL	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-21LDI	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-21LDO	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-22LUI	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-22LUO	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-22	EL TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-22LD	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-23LU	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)C-23	PIPE TO REDUCER	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)C-1	REDUCER TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-1LD	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)C-2LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-2								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-2LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-3LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-3								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-3LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-43								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)C-3/3MD(16)-4								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)C-3/3/4V-703								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)C-3/3/4V-704								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)C-4LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-4								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-4LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
30MS(1)C-5LDO	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-5	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-5LD	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-42	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-41	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)C-6LU	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-6	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-6LD	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-40	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)C-7LU	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-7	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-7LDO	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)C-8LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-8								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-8LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-39								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)C-9LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-9								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-9LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-38								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-37								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)C-10LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-10								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-10LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
30MS(1)C-11LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-11								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-11LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-36								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-35								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)C-12LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-12								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-12LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-34								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-33								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)C-13LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-13								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)C-13LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-32								
	HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)C-14LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-14								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-14LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-31								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-30								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)C-14/18MS(1)-4								
	PIPE TO WOL	C-F	SUR	PTP-1				
18MS(1)C-1								
	WOL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)C-2								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)C-3								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)C-4								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18MS(1)C-5								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
MS-48								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-49								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18MS(1)C-6								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)C-7								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)C-8								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)C-9								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)C-10								
	PIPE TO WOL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
30MS(1)C-16LU								
	PIPE SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-16								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-16LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-29								
	HANGER	C-E-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)C-17LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-17								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-17LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-28								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)C-17/1V-706C								
	INSTR CONN	N/A	VT-2	QCS&I-002				
MS-27								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)C-18LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-18								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-18LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-19LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-19								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-19LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-26								
	HANGER	C-E-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)C-20LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-20								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-20LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-21LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-21								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-21LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-25								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)C-21/3/4V-707C								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)C-21/1TX-1C								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)C-21/1TE-1C								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-141								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-24								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)C-21/6MS(1)-4								
	WOL TO PIPE	C-F	SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

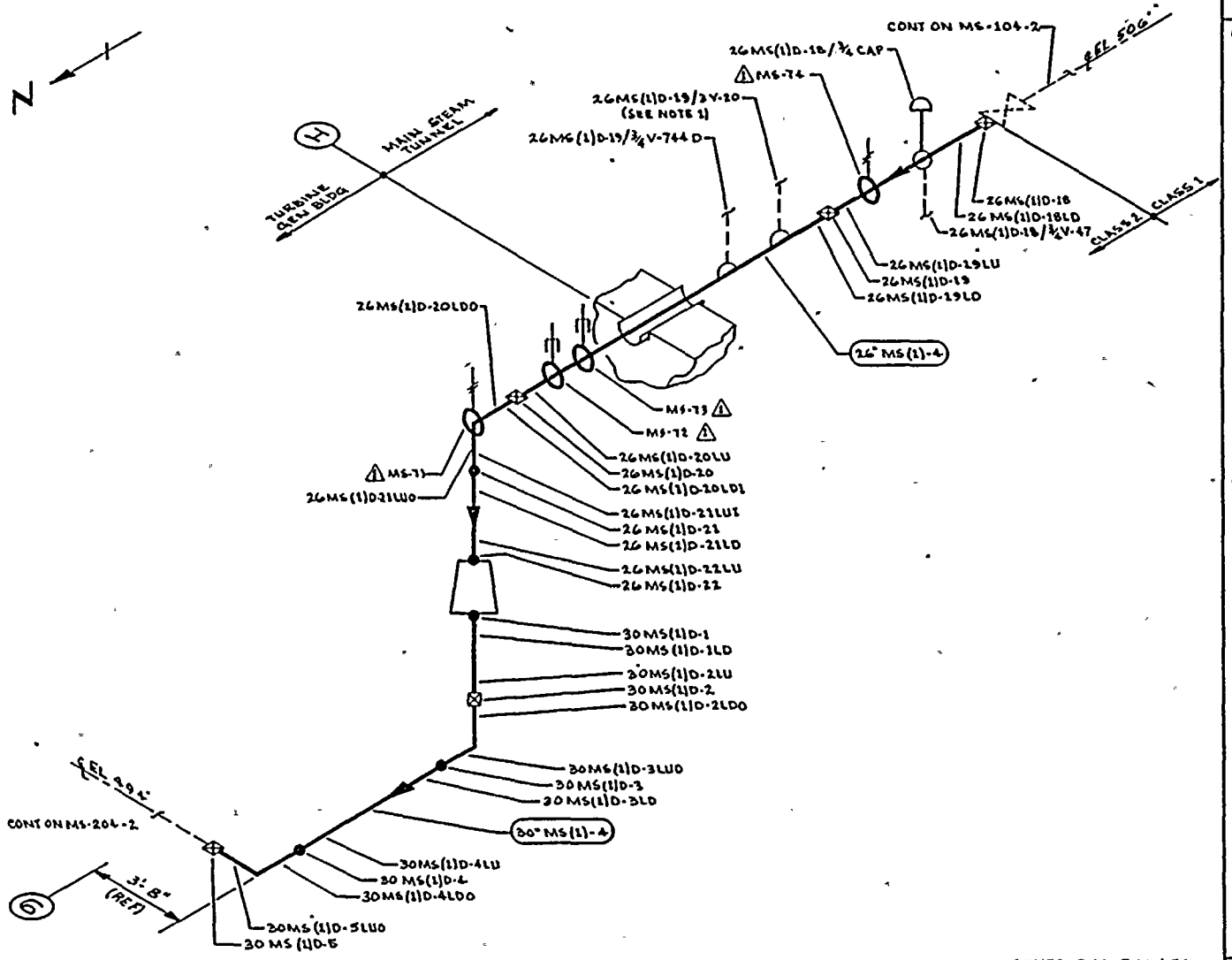
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6MS(1)C-1								
	PIPE TO WOL	C-F	SUR	PTP-1				
6MS(1)C-1/2LS-24CD								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)C-2/2LS-24CU								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)C-1/2MD(1)-2								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)C-2								
	CAP TO PIPE	C-F	SUR	PTP-1				
6MS(1)C-2/3/4V-119C								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)C-22LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-22								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-22LDI								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-22LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-23LUI								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-23LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-23								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-23LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

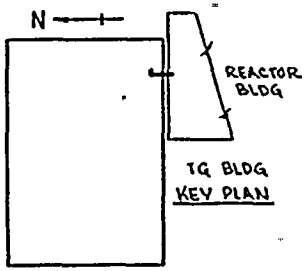
DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)C-24LU	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-24	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-24LDO	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-25LUO	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-25	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-25LD	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-26LU	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)C-26	PIPE TO REDUCER	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
28MS(1)C-1	REDUCER TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-PB-203	MS PRESS BNDRY	N/A	VT-2	QCS&I-002				IWC-2510



NOTES:
1. A 2" CONNECTION WITH VISUAL (VT-2) EXAM TERMINATING AT 2" MS-V-20.

REFERENCES:
BOVEE & CRAIL ISOMETRIC
MS-531-1.3 REV 4



ZONES R-41, T-36 & T-26

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
26" MS(1)-4	26	XXX	1.125	SA 155 CL1 KCF 70	CS	UT-3

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-5-80	DELETED WELDS 2LDI, 3LUI, 4LDI & 5LUI	[illegible]	[illegible]	DLP
0	1-9-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	4-26-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

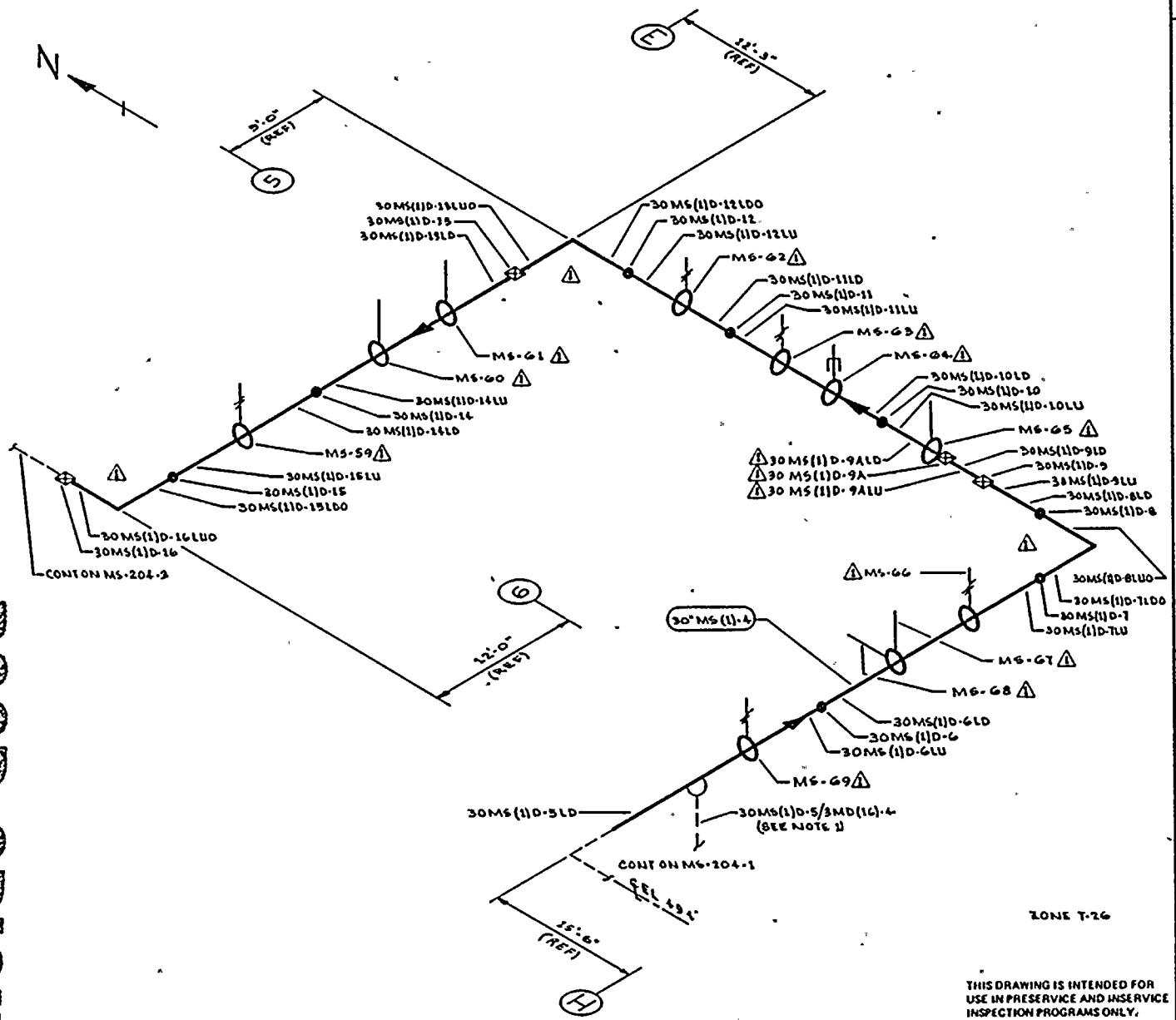
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: D TIMMINS | DRAWN: K.M.C.A. | DATE: 2-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE D

DWG NO: MS-204-1 | REV 1

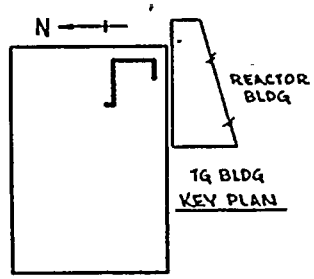


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH DRAINAGE SYSTEM TO VALVES MS-V-72 & MS-V-73.

REFERENCES:

BOVES & CRAIL ISOMETRIC
MS-521-4.G REV 1



TG BLDG KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA155 CL1 KCF 70	CS	UT-1

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-6-80	REVISED AS NOTED	K.M.A	[illegible]	[illegible]
0	1-9-79	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	6-20-78	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

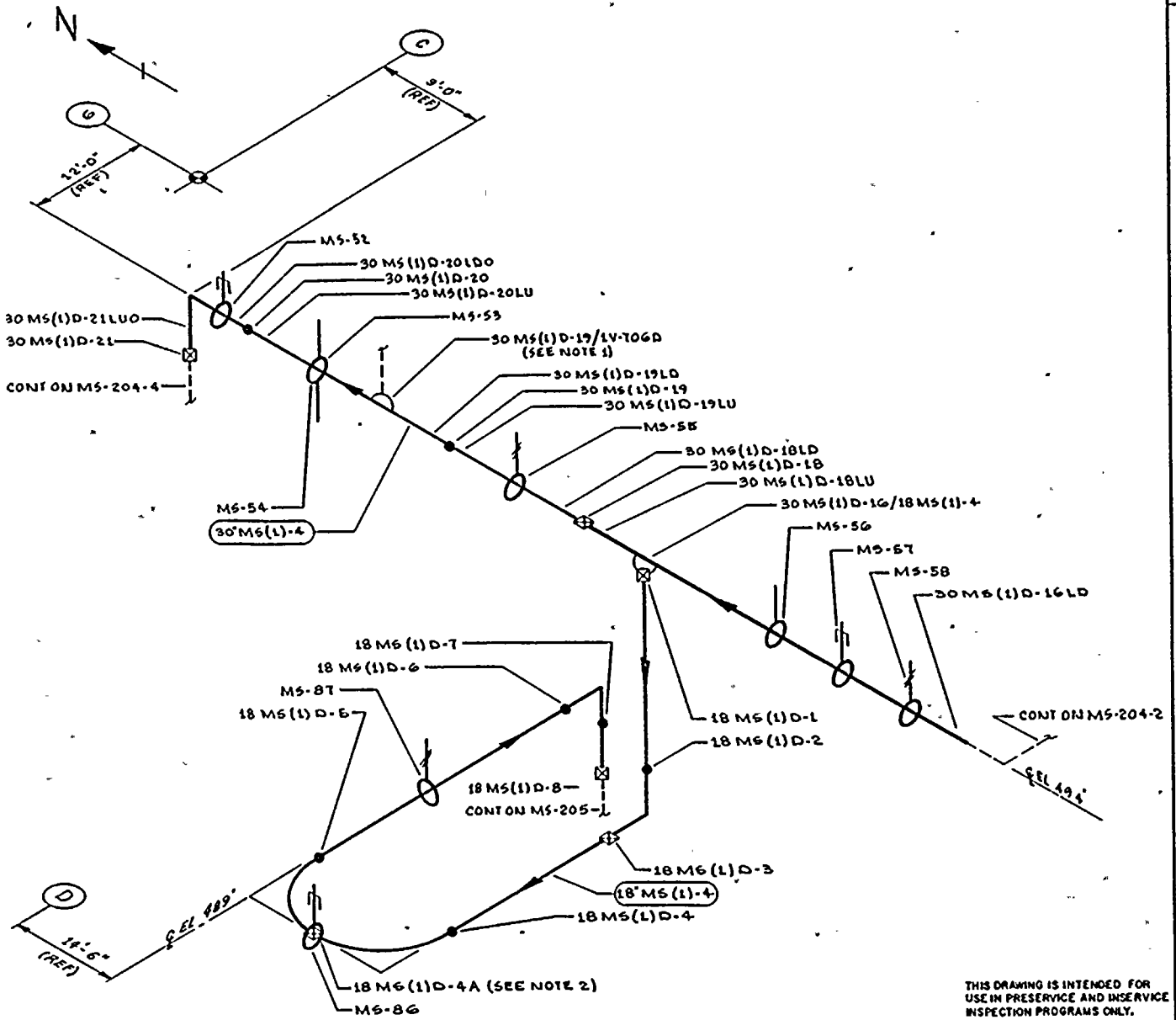
QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR.D TIMMINS	DRAWN: K.M.A	DATE: 2-17-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE D

DWG NO: MS-204-2 REV 1

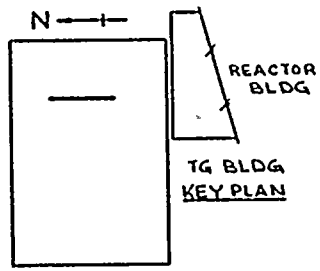


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-706D TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.
2. WELD 18 MS(1)D-4A IS FITTING TO FITTING.

REFERENCE:

BOVEE & CRAIL ISOMETRIC
MS-531-7.10 REV 3



QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS / DRAWN: K.M.A	DATE: 2-21-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS(1)-4	30	XXX	1.250	SA 155 CL 1 KCF 70	CS	UT-1
18" MS(1)-4	18	80	0.938	SA 106 GR B	CS	UT-12

NO	DATE	REVISION	BY	CHKD	APPVD
2	11-5-80	REDRAWN ADDED FW 4A, NOTE 2 & MODIFIED SUPPORT NO.	K.M.A	[illegible]	DLP
1	9-13-79	DELETED TEE & CORRESPONDING WELDS. ADDED WR 2 & D-5	K.M.A	[illegible]	[illegible]
0	1-9-79	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	4-20-78	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE D

DWG NO: MS-204-3 REV 2

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)D-18								
	VALVE TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-18LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-18/3/4CAP								
	CAPPED CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)D-18/3/4V-47								
	TEST CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-74								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)D-19LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-19								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-19LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-19/2V-20								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
26MS(1)D-19/3/4V-744D								
	INST CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-73								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-72								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)D-20LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
26MS(1)D-20								
	PIPE TO EL	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-20LDI								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-20LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
MS-71								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
26MS(1)D-21LUI								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-21LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-21								
	EL TO PIPE	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-21LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-22LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
26MS(1)D-22								
	PIPE TO REDUCER	C-F	VOL	UTP-10	UT-3			
			SUR	PTP-1				
30MS(1)D-1								
	REDUCER TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-1LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
30MS(1)D-2LU	PIPE LONG SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-2	PIPE TO EL	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-2LDO	EL SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-3LUO	EL SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-3	EL TO PIPE	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-3LD	PIPE LONG SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-4LU	PIPE LONG SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-4	PIPE TO EL	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-4LDO	EL SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-5LUO	EL SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-5	EL TO PIPE	C-F	VOL SUR	UTP-10 PTP-1	UT-1			
30MS(1)D-5LD	PIPE LONG SEAM	C-F	VOL SUR	UTP-10 PTP-1	UT-1			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)D-5/3MD(16)-4								
	DRAIN CONN	N/A	VT-2	QCS&I-002				
MS-69								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)D-6LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-6								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-6LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-68								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-67								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-66								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)D-7LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-7								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-7LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-8LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-8								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
30MS(1)D-8LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-9LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-9								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-9LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-65								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)D-10LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-10								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-10LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-64								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-63								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)D-11LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-9ALU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)D-9A								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-9ALD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-11								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-11LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-62								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)D-12LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-12								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-12LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-13LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-13								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-13LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-61								
	HANGER	C-E-2	VT-3	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-60								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)D-14LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-14								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-14LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-59								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)D-15LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-15								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-15LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-16LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-16								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-16LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-58								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
MS-57								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
MS-56								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)D-16/18MS(1)-4								
	PIPE TO WOL	C-F	SUR	PTP-1				
18MS(1)D-1								
	WOL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)D-2								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)D-3								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)D-4								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)D-4A								
	EL TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
MS-86								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18MS(1)D-5								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
MS-87								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
18MS(1)D-6								
	PIPE TO EL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
18MS(1)D-7								
	EL TO PIPE	C-F	VOL	UTP-10	UT-12			
			SUR	PT				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
18MS(1)D-8								
	PIPE TO WOL	C-F	VOL	UTP-10	UT-12			
			SUR	PTP-1				
30MS(1)D-18LU								
	PIPE SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-18								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-18LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-55								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)D-19LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-19								
	PIPE TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-19LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-19/1V-706D								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-53								
	HANGER	C-E-2	VT-3	QCS&I-002				
MS-54								
	HANGER	C-E-2	VT-3	QCS&I-002				
30MS(1)D-20LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-20								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)D-20LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-52								
	SNUBBER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)D-21LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-21								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-21LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-51								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)D-22LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-22								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-22LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-23LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-23								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-23LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

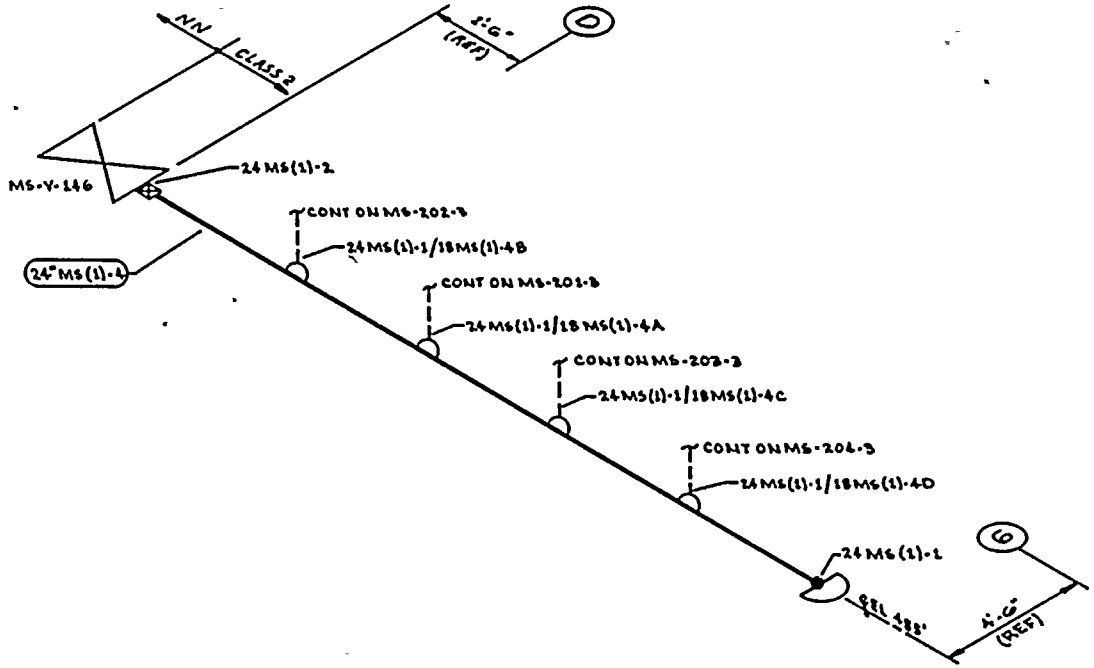
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)D-23/3/4V-707D								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)D-23/1TX-1D								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)D-23/1TE-1D								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
MS-50								
	SPRING HANGER	C-E-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
30MS(1)D-23/6MS(1)-4								
	WOL TO PIPE	C-F	SUR	PTP-1				
6MS(1)D-1								
	PIPE TO WOL	C-F	SUR	PTP-1				
6MS(1)D-1/1LS-24DD								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)D-2/1LS-24DU								
	INSTR CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)D-1/2MD(1)-2								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
6MS(1)D-2								
	CAP TO PIPE	C-F	SUR	PTP-1				
6MS(1)D-2/3/4V-119D								
	DRAIN CONN	N/A	VT-2	QCS&I-002				IWC-2510
30MS(1)D-24LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-24								
	PIPE TO EL	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-24LDO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-25LUO								
	EL SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

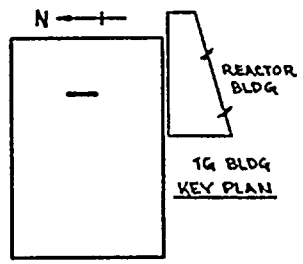
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
30MS(1)D-25								
	EL TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-25LD								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-26LU								
	PIPE LONG SEAM	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
30MS(1)D-26								
	PIPE TO REDUCER	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
28MS(1)D-1								
	REDUCER TO PIPE	C-F	VOL	UTP-10	UT-1			
			SUR	PTP-1				
MS-PB-204								
	MS PRES BNDRY	N/A	VT-2	QCS&I-002				IWC-2510



ZONES T-2B & T-2G

NOTES:

REFERENCES:
BOVEE & CRAIL ISOMETRIC
MS-584-1 REV 2



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: V. M. A. DATE: 3-23-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" MS(1)-4	24	80	1.218	SA 106 GR B	CS	UT-6

TITLE:
MAIN STEAM HEADER

DWG NO: MS-205 REV O

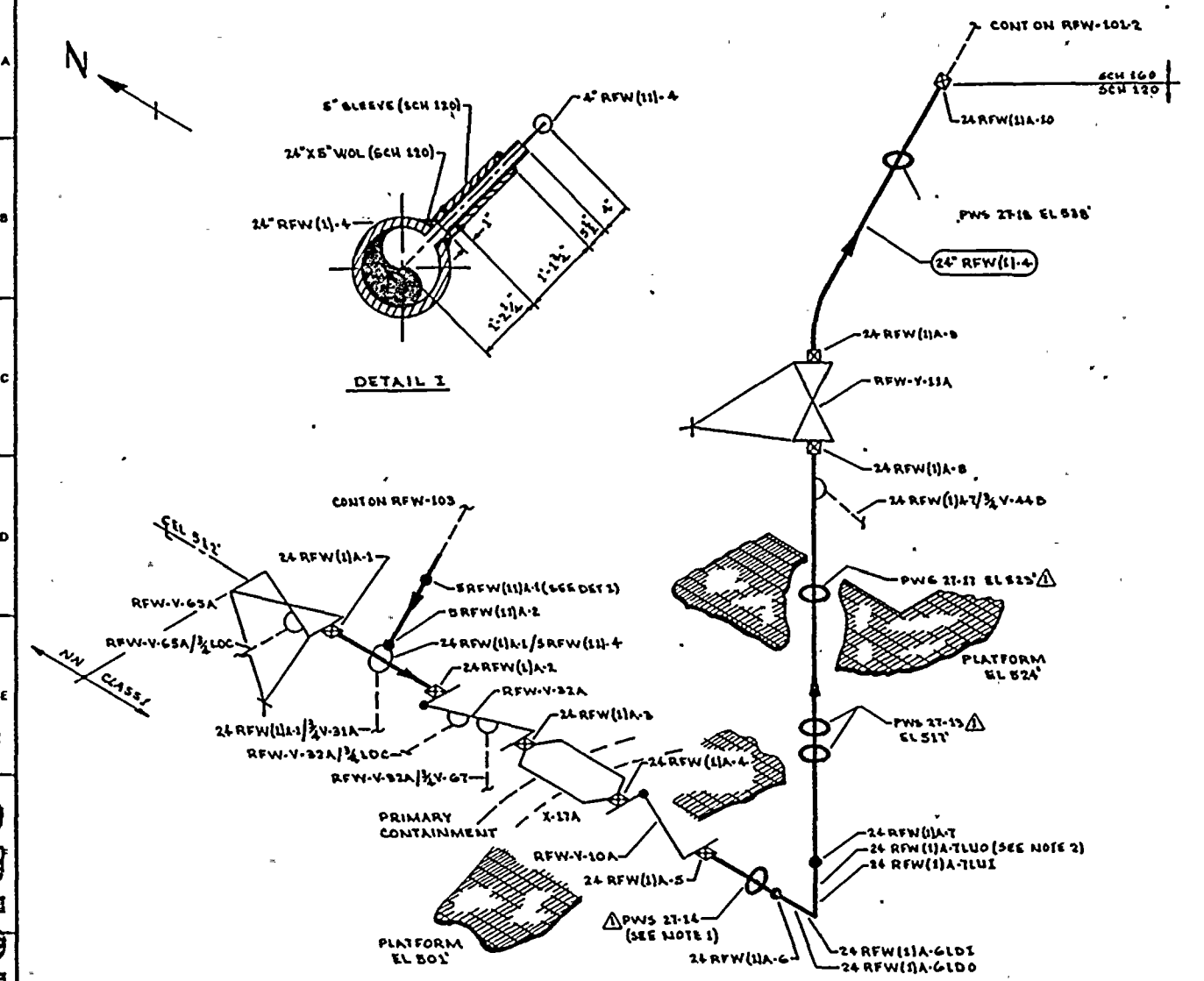
NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE			
A	5-26-78	ISSUED FOR INFORMATION ONLY			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. MS-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: MS(1)-4
DESCRIPTION: MS HDR / BYPASS VLV

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24MS(1)-1								
	CAP TO PIPE	C-F	VOL	UTP-10	UT-6			
			SUR	PTP-1				
24MS(1)-1/18MS(1)4D								
	WOL TO PIPE	C-F	SUR	PTP-1				
24MS(1)-1/18MS(1)4C								
	WOL TO PIPE	C-F	SUR	PTP-1				
24MS(1)-1/18MS(1)4A								
	WOL TO PIPE	C-F	SUR	PTP-1				
24MS(1)-1/18MS(1)4B								
	WOL TO PIPE	C-F	SUR	PTP-1				
24MS(1)-2								
	PIPE TO VALVE	C-F	VOL	UTP-10	UT-6			
			SUR	PTP-1				
MS-PB-205								
	MS PRES BNDRY	N/A	VT-2	QCS&I-002				IWC-2510



NOTES:

1. ACCESS TO WELDS 24 RFW(1)A-5 & 24 RFW(1)A-6 REQUIRES REMOVAL OF 24 RFW(1)A-5PR.
2. ELBOW BETWEEN WELDS 24 RFW(1)A-6 & 7 IS SCH 140, WELDED & SHORT RADIUS.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RFW-418-3 REV 1
RFW-418-4 REV 1
RFW-418-5,6 REV 1

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RFW(1)-4	24	120	1.812	SA 106 GR B	CS	UT-5
5" RFW(11)-4	5	120	0.500	SA 106 GR B	CS	UT-32
24" RFW(1)-4	24	140	2.062	SA 106 GR B	CS	UT-33

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-5-80	ADDED NOTE 2 & PIPE SCH BREAK & AS NOTED	KMLA	TFB	[illegible]
0	12-17-78	ISSUED FOR USE	KMLA	[illegible]	[illegible]
A	4-21-78	ISSUED FOR INFORMATION ONLY	KMLA	DCS	[illegible]

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS: 1

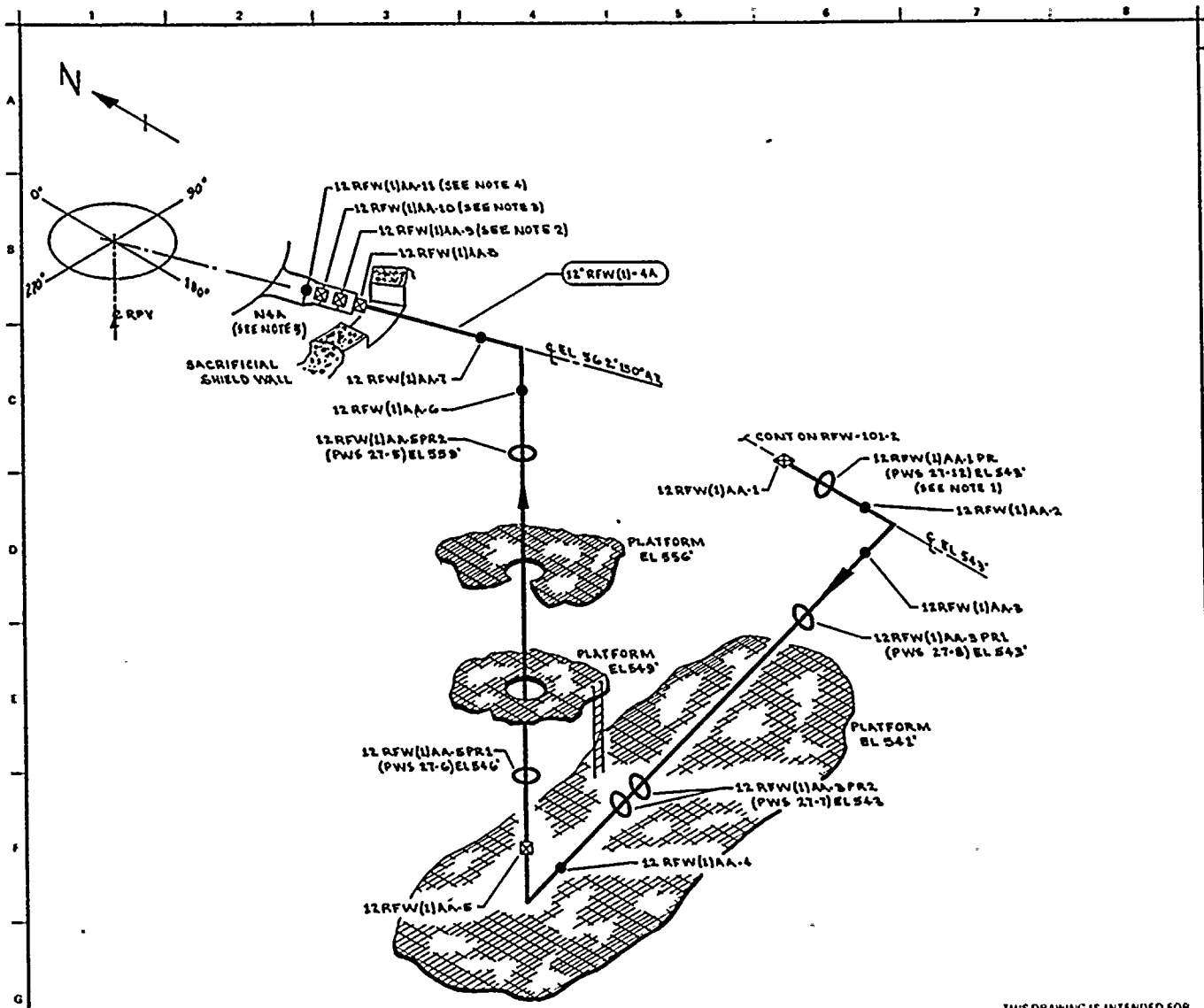
ENGR: D TIMMINS | DRAWN: K.M.L.A | DATE: 3-1-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: REACTOR FEED WATER LINE A

DWG NO: RFW-101-1 | REV 1



NOTES:

1. ACCESS TO WELD 12 RFW(1)AA-2 REQUIRES REMOVAL OF 12 RFW(1)AA-1 PR.
2. WELD 12 RFW(1)AA-9 UTILIZES CAL BLOCK UT-106.
3. WELD 12 RFW(1)AA-10 UTILIZES CAL BLOCK UT-105.
4. WELD 12 RFW(1)AA-11 UTILIZES CAL BLOCK UT-102.
5. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-105.

REFERENCES

BOVEE & CRAIL ISOMETRICS

RFW-418-7.8 REV 1
RFW-418-13 REV 1

CBI NUCLEAR CO.

59, REV 5, N4 NOZZLE

QUALITY CLASS 1	ASME CODE CLASS. 1
ENGR D TIMMINS	DRAWN K.M.C.A. DATE 8-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

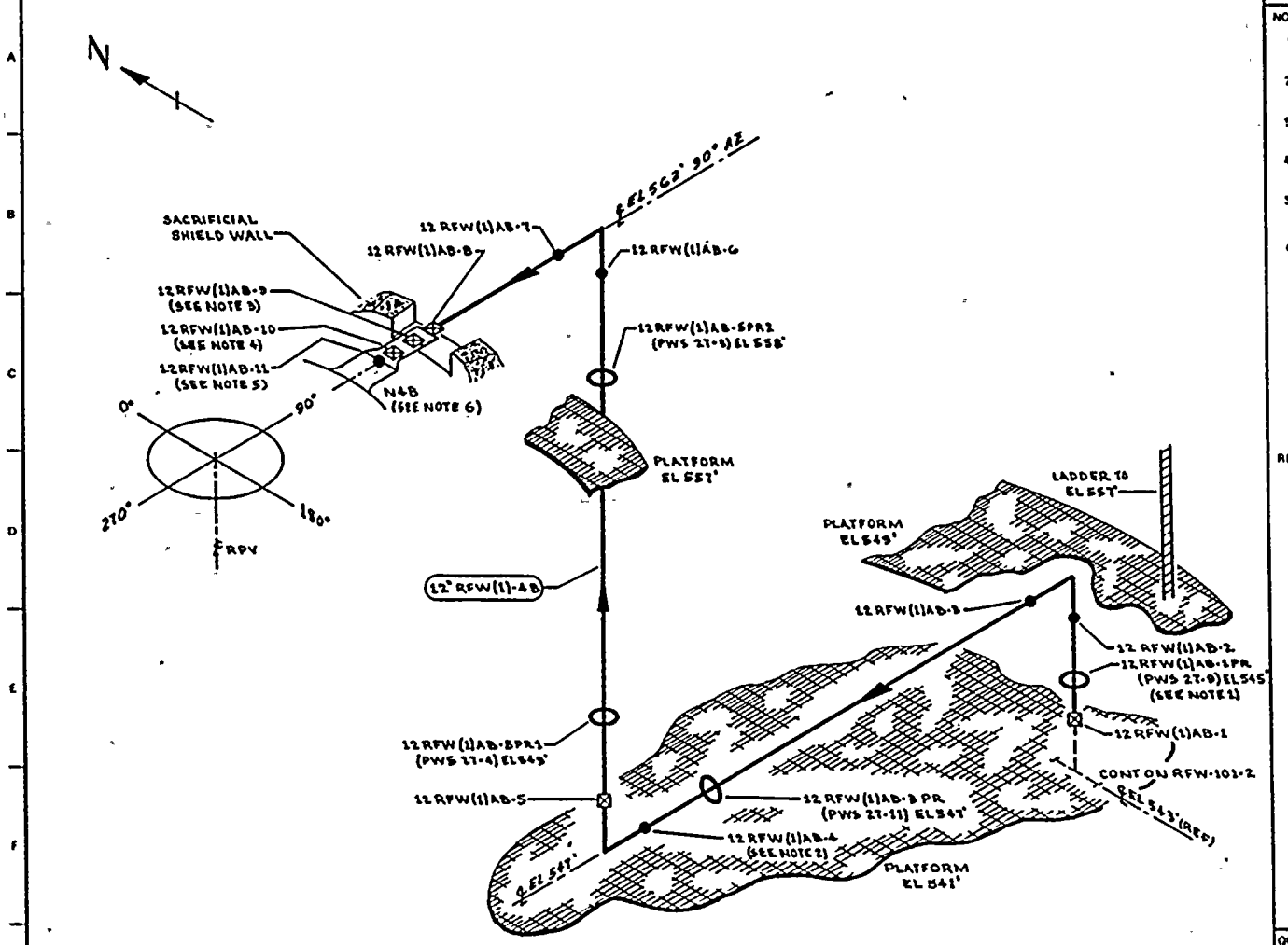
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

NO	DATE	REVISION	BY	CHKD	APPVD
2	8-30-79	ADDED NOTE 5.	KMA	[illegible]	[illegible]
1	5-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 2)	KMA	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KMA	[illegible]	[illegible]
A	4-21-78	ISSUED FOR INFORMATION ONLY	KMA	DCJ	DLR

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE
REACTOR FEED WATER LINE A,A

DWG NO RFW-101-3 REV 2



NOTES:

1. ACCESS TO WELD 12 RFW(1)AB-2 REQUIRES REMOVAL OF 12 RFW(1)AB-1 PR.
2. ACCESS TO WELD 12 RFW(1)AB-4 REQUIRES REMOVAL OF 12 RFW(1)AB-3 PR.
3. WELD 12 RFW(1)AB-9 UTILIZES CAL BLOCK UT-106.
4. WELD 12 RFW(1)AB-10 UTILIZES CAL BLOCK UT-105.
5. WELD 12 RFW(1)AB-11 UTILIZES CAL BLOCK UT-102.
6. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-108.

REFERENCES

BOVEE & CRAIL ISOMETRICS
RFW-418-11-12 REV 1

CBS NUCLEAR CO.
59, REV 9, N4 NOZZLE

NO	DATE	REVISION	BY	CHKD	APPVD
2	8-30-79	ADDED NOTE 6.	KMcA	RWH	EJS
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 3)	KMcA	RWH	EJS
0	11-27-78	ISSUED FOR USE	KMcA	RWH	EJS
A	4-21-78	ISSUED FOR INFORMATION ONLY	KMcA	RWH	EJS

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

QUALITY CLASS 1 | ASME CODE CLASS 1

ENGR D TIMMINS | DRAWN K McA | DATE 2-2-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE
REACTOR FEED WATER LINE AB

DWG NO RFW-101-4 | REV 2

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
RFW-V-65A/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
RFW-V-65A-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RFW-V-65A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
24RFW(1)A-1	VALVE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
24RFW(1)A-1/3/4V-31A	TEST CONN	B-P	VT-2	QCS&I-002				
24RFW(1)A-1/5RFW(11)-4	PIPE TO WOL	B-J	SUR	PTP-1				
5RFW(11)A-2	SLEEVE TO WOL	B-J	VOL SUR	UTP-10 PTP-1	UT-32			
5RFW(11)A-1	SLEEVE - SLEEVE	B-J	VOL SUR	UTP-10 PTP-1	UT-32			
24RFW(1)A-2	PIPE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
RFW-V-32A/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
RFW-V-32A-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RFW-V-32A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RFW-V-32A/3/4V-67	TEST CONN	B-P	VT-2	QCS&I-002				
24RFW(1)A-3	VALVE TO PENE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
24RFW(1)A-4	PENE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RFW-V-10A-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RFW-V-10A-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
24RFW(1)A-5								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-5			
			SUR	PTP-1				
PWS-27-14								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RFW(1)A-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-5			
			SUR	PTP-1				
24RFW(1)A-6LDO								
	EL PIPE	B-J	VOL	UTP-10	UT-33			
			SUR	PTP-1				
24RFW(1)A-6LDI								
	EL PIPE	B-J	VOL	UTP-10	UT-33			
			SUR	PTP-1				
24RFW(1)A-7LUI								
	EL PIPE	B-J	VOL	UTP-10	UT-33			
			SUR	PTP-1				
24RFW(1)A-7LUO								
	EL PIPE	B-J	VOL	UTP-10	UT-33			
			SUR	PTP-1				
24RFW(1)A-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-5			
			SUR	PTP-1				
PWS-27-13								
	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-27-17								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RFW(1)A-7/3/4V-44B								
	TEST CONN	B-P	VT-2	QCS&I-002				
24RFW(1)A-8								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-5			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RFW-V-11A-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RFW-V-11A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
24RFW(1)A-9	VALVE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
PWS-27-18	PWS	N/A	N/A	N/A				SEE NOTE #1
24RFW(1)A-10	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
24RFW(1)A-11	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)A-12	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)A-13	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)A-14	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
PWS-27-16	PWS	N/A	N/A	N/A				SEE NOTE #1
24RFW(1)A-15	PIPE TO TEE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
12RFW(1)AC-1	TEE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)AC-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)AC-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
PWS-27-15								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)AC-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)AC-5								
	EL TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)AC-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)AC-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)AC-7A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
PWS-27-2								
	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-27-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)AC-8								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)AC-9								
	EL TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)AC-10								
	PIPE-SE EXT	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)AC-11								
	SE/EX-SE/STUB	B-F	VOL	UTP-31	UT-106			
			SUR	PTP-1				
12RFW(1)AC-12								
	SE/STUB TO SE	B-J	VOL	UTP-31	UT-105			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
12RFW(1)AC-13								
	SE / N4	B-F	VOL	UTP-31	UT-102			
			SUR	PTP-1				
24RFW(1)A-16								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-5			
			SUR	PTP-1				
24RFW(1)A-17								
	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-5			
			SUR	PTP-1				
18RFW(1)A-1								
	REDUCER TO PIPE	B-J	VOL	UTP-10	UT-11			
			SUR	PTP-1				
PWS-27-10								
	PWS	N/A	N/A	N/A				SEE NOTE #1
18RFW(1)A-2								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-11			
			SUR	PTP-1				
12RFW(1)AB-1								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-11			
			SUR	PTP-1				
PWS-27-9								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)AB-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)AB-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
PWS-27-9								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)AB-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)AB-5								
	EL TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
PWS-27-4	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-27-3	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)AB-6	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)AB-7	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)AB-8	PIPE-SE EXT	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)AB-9	SE EXT-SE STUB	B-F	VOL SUR	UTP-31 PTP-1	UT-106			
12RFW(1)AB-10	SE STUB TO SE	B-J	VOL SUR	UTP-31 PTP-1	UT-105			
12RFW(1)AB-11	SE TO N4	B-F	VOL SUR	UTP-31 PTP-1	UT-102			
18RFW(1)A-3	TEE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-11			
18RFW(1)A-4	PIPE TO REDUCER	B-J	VOL SUR	UTP-10 PTP-1	UT-11			
12RFW(1)AA-1	REDUCER TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
PWS-27-12	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)AA-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-101

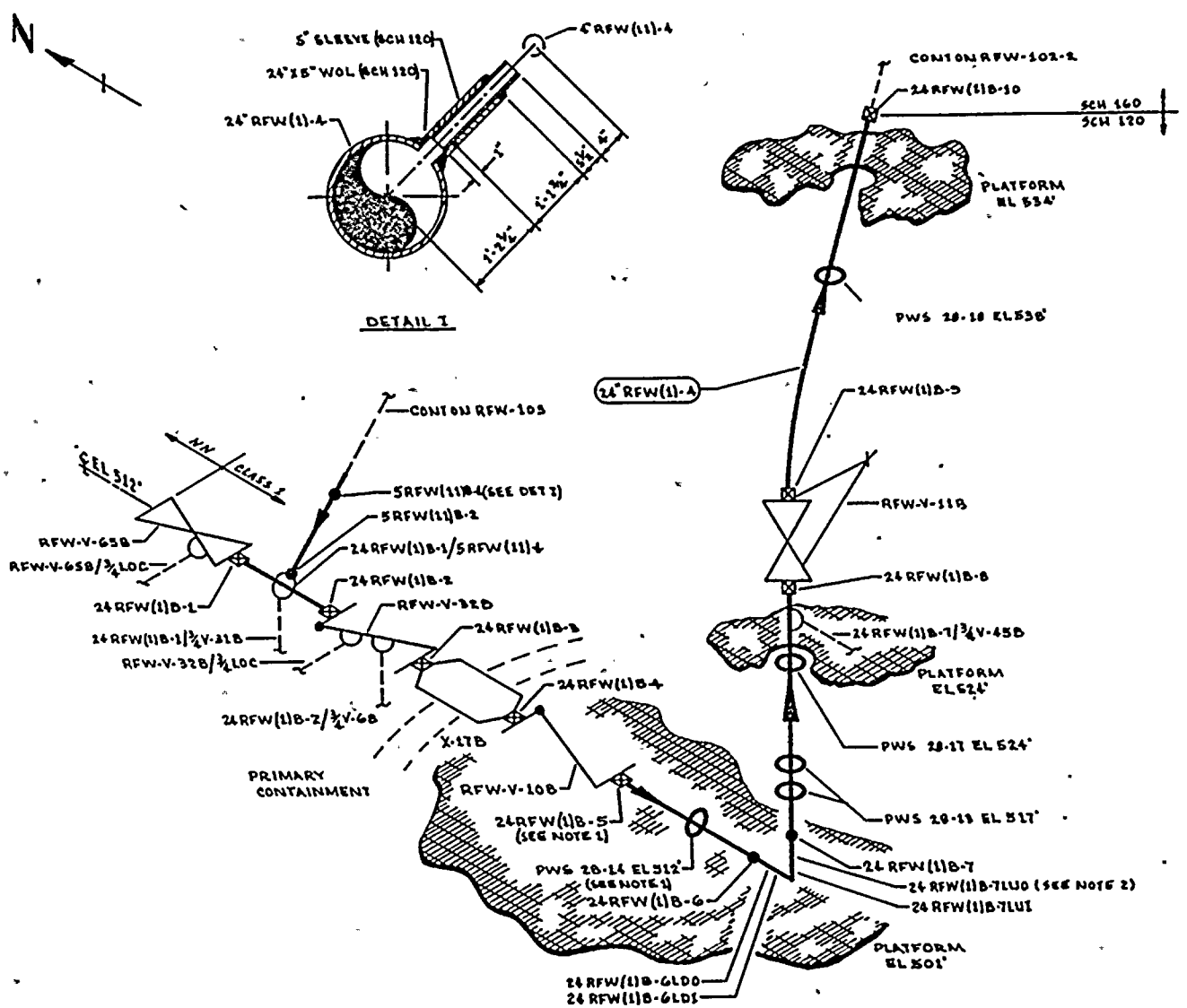
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RFW(1)AA-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
PWS-27-8	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-27-7	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)AA-4	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)AA-5	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
PWS-27-6	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-27-5	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)AA-6	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)AA-7	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)AA-8	PIPE TO SE EXT	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)AA-9	SE EXT-SE STUB	B-F	VOL SUR	UTP-31 PTP-1	UT-106			
12RFW(1)AA-10	SE STUB-SE EXT	B-J	VOL SUR	UTP-31 PTP-1	UT-105			
12RFW(1)AA-11	SE TO N4	B-F	VOL SUR	UTP-31 PTP-1	UT-102			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RFW-PB-101	RFW PRES BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

1. ACCESS TO WELDS 24 RFW(1)B-5 & 24RFW(1)B-6 REQUIRES REMOVAL OF 24 RFW(1)B-5PR.
2. ELBOW BETWEEN WELDS 24RFW(1)B-6 & 7 IS SCH 140, WELDED & SHORT RADIUS.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RFW-419-3	REV 1
RFW-419-4	REV 1
RFW-419-5.7	REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RFW(1)-4	24	120	1.812	SA 106 GR B	CS	UT-5
5" RFW(11)-4	5	120	0.500	SA 106 GR B	CS	UT-32
24" RFW(1)-4	24	160	2.062	SA 106 GR B	CS	UT-33

NO	DATE	REVISION	BY	CHKD	APPVD
1	11-5-80	ADDED NOTE 2 & PIPE SCH BREAK	KMA	TFB	DAP
0	11-27-78	ISSUED FOR USE	KMA	DCJ	DAP
A	9-22-78	ISSUED FOR INFORMATION ONLY	KMA	DCJ	DAP

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: K. MAA | DATE: 8-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

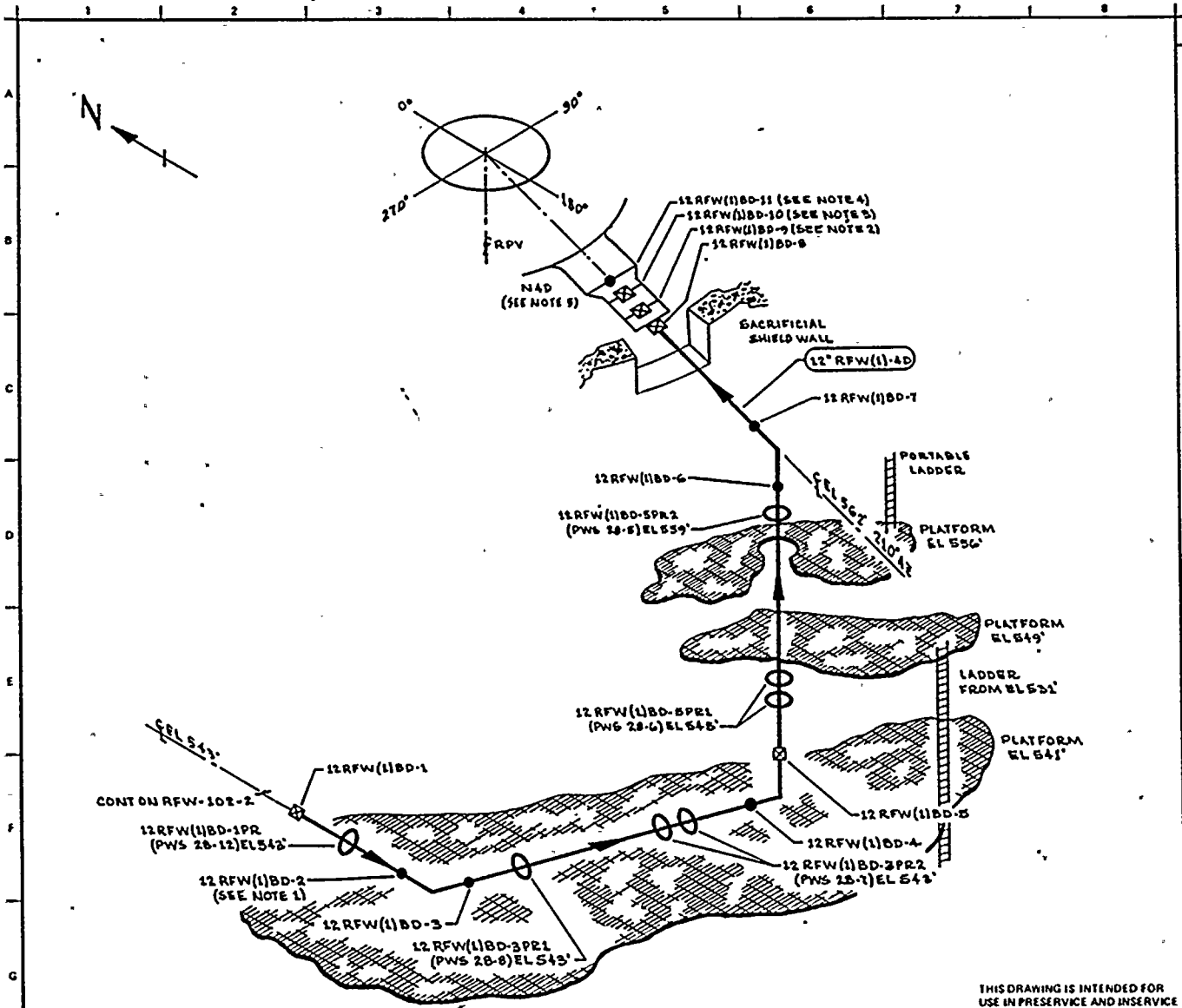
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE B

DWG NO: RFW-102-1 | REV 1

PHASE III



NOTES:

1. ACCESS TO WELD 12 RFW(1)BD-2 REQUIRES REMOVAL OF 12 RFW(1)BD-1PR.
2. WELD 12 RFW(1)BD-9 UTILIZES CAL BLOCK UT-106.
3. WELD 12 RFW(1)BD-10 UTILIZES CAL BLOCK UT-105.
4. WELD 12 RFW(1)BD-11 UTILIZES CAL BLOCK UT-102.
5. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-108

REFERENCES:

BOVEE & CRAIL ISOMETRIC RFW-419-8.5 REV 1.

CBI NUCLEAR CO. 59, REV 9, N4 NOZZLE

QUALITY CLASS. 1	ASME CODE CLASS: 1
ENGR. D TIMMINS	DRAWN. K McA — DATE: 3-7-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

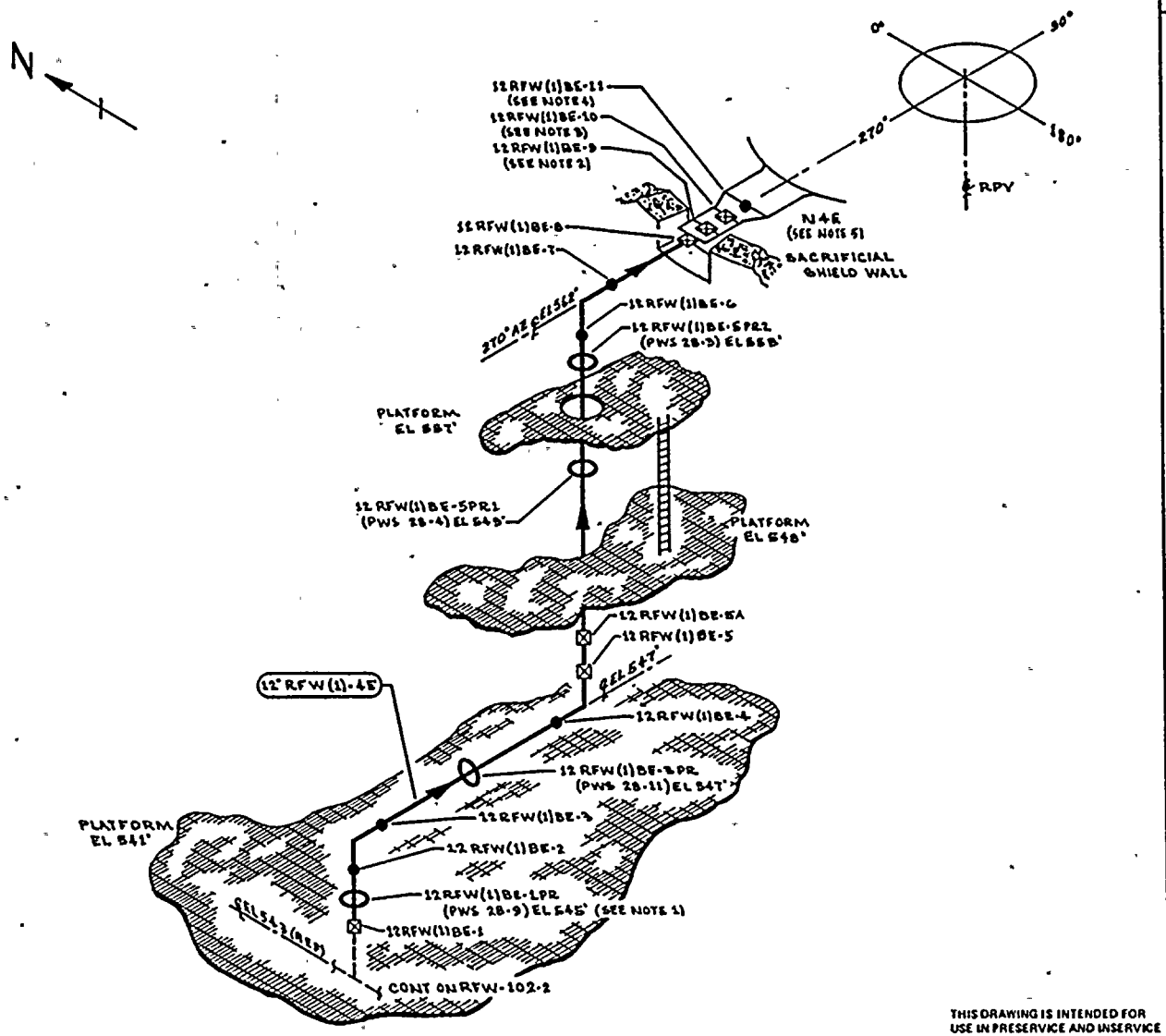
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW(1)-4	12	120	1.000	SA 106 GR B	C6	UT-15

2	8-30-79	ADDED NOTE 5.	K McA	
1	5-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 2)	K McA	
0	11-27-78	ISSUED FOR USE	K McA	
A	4-24-78	ISSUED FOR INFORMATION ONLY	K McA	

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE BD



NOTES:

1. ACCESS TO WELD 12 RFW(1)BE-2 REQUIRES REMOVAL OF 12 RFW(1)BE-1PR.
2. WELD 12 RFW(1)BE-9 UTILIZES CAL BLOCK UT-106.
3. WELD 12 RFW(1)BE-10 UTILIZES CAL BLOCK UT-105.
4. WELD 12 RFW(1)BE-11 UTILIZES CAL BLOCK UT-102.
5. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-108.

REFERENCES:

BOYER & CRAIL ISOMETRIC
RFW-419-10.11 REV 1

CBI NUCLEAR CO.
59, REV 3, N4 NOZZLE

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K.M.A. DATE: 3-7-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

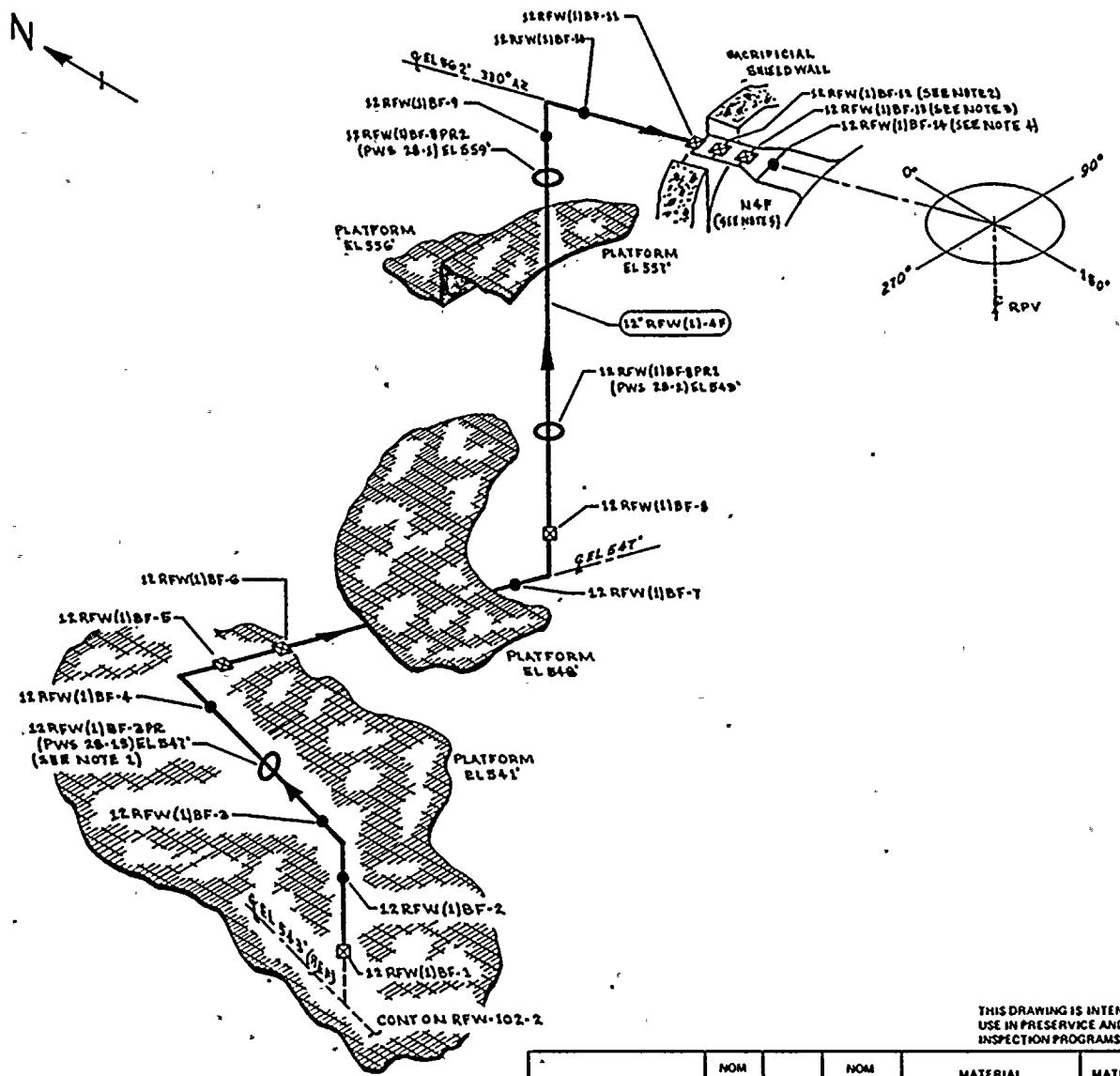
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: REACTOR FEED WATER LINE BE

DWG NO: RFW-102-4 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	7-12-79	ADDED 12 RFW(1)BE-5A PER AS BUILT, EN B-5 ADDED NOTE 5	K.M.A.	[illegible]	[illegible]
1	5-10-78	CAL BLOCK REFERENCE CHANGED (NOTE 2)	K.M.A.	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	4-25-78	ISSUED FOR INFORMATION ONLY	K.M.A.	D.C.J.	[illegible]



NOTES:

1. ACCESS TO WELDS 12 RFW(1)BF-3 & 12 RFW(1)BF-4 REQUIRES REMOVAL OF 12 RFW(1)BF-3PR.
2. WELD 12 RFW(1)BF-12 UTILIZES CAL BLOCK UT-106.
3. WELD 12 RFW(1)BF-13 UTILIZES CAL BLOCK UT-105.
4. WELD 12 RFW(1)BF-14 UTILIZES CAL BLOCK UT-102.
5. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-108.

REFERENCES:

BOVEE & CRAIL ISOMETRIC REW-419-12.15 REV 2

CBI NUCLEAR CO. 59, REV 5, N4 NOZZLE

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR D TIMMINS	DRAWN: K McA
	DATE: 3-13-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12"RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE BF

DWG NO: RFW-102-5 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	7-17-79	CORRECTED AZYMUTH 350° TO 330° ON A-4 ADDED NOTE 5.	KMcA	[illegible]	[illegible]
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 2)	KMcA	[illegible]	[illegible]
0	11-21-78	ISSUED FOR USE	KMcA	DAR	[illegible]
A	4-26-78	ISSUED FOR INFORMATION ONLY	KMcA	DCJ	DWP

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RFW-V-65B/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
RFW-V-65B-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RFW-V-65B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
24RFW(1)B-1	VALVE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
24RFW(1)B-1/3/4V-31B	TEST CONN	B-P	VT-2	QCS&I-002				
24RFW(1)B-1/5RFW(11)-4	PIPE TO WOL	B-J	SUR	PTP-1				
5RFW(11)B-1	SLEEVE-SLEEVE	B-J	SUR	PTP-1				FILLET WELD
5RFW(11)B-2	SLEEVE TO WOL	B-J	VOL SUR	UTP-10 PTP-1	UT-32			
24RFW(1)B-2	PIPE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
RFW-V-32B/3/4LOC	STEM LEAKOFF	B-P	VT-2	QCS&I-002				
RFW-V-32B-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RFW-V-32B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RFW-V-32B/3/4-68	TEST CONN	B-P	VT-2	QCS&I-002				
24RFW(1)B-3	VALVE TO PENE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
24RFW(1)B-4	PENE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
RFW-V-10B-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RFW-V-10B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
24RFW(1)B-5	VALVE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
PWS-28-14	PWS	N/A	N/A	N/A				SEE NOTE #1
24RFW(1)B-6	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
24RFW(1)B-6LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)B-6LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)B-7LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)B-7LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)B-7	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
PWS-28-13	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-28-17	PWS	N/A	N/A	N/A				SEE NOTE #1
24RFW(1)B-7/3/4V-458	TEST CONN	B-P	VT-2	QCS&I-002				
24RFW(1)B-8	PIPE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RFW-V-11B-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RFW-V-11B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
24RFW(1)B-9	VALVE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
PWS-28-18	PWS	N/A	N/A	N/A				SEE NOTE #1
24RFW(1)B-10	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
24RFW(1)B-11	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)B-12	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)B-13	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-33			
24RFW(1)B-14	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
PWS-28-16	PWS	N/A	N/A	N/A				SEE NOTE #1
24RFW(1)B-15	PIPE TO TEE	B-J	VOL SUR	UTP-10 PTP-1	UT-5			
12RFW(1)BF-1	TEE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BF-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RFW(1)BF-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
PWS-28-15	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)BF-4	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BF-5	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BF-6	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BF-7	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BF-8	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
PWS-28-2	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-28-1	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)BF-9	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BF-10	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BF-11	PIPE TO SE EXT	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BF-12	SE EXT-SE STUB	B-F	VOL SUR	UTP-10 PTP-1	UT-106			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RFW(1)BF-13								
	SE STUB TO SE	B-J	VOL	UTP-10	UT-105			
			SUR	PTP-1				
12RFW(1)BF-14								
	SE TO N4	B-F	VOL	UTP-10	UT-102			
			SUR	PTP-1				
24RFW(1)B-16								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-5			
			SUR	PTP-1				
24RFW(1)B-17								
	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-5			
			SUR	PTP-1				
18RFW(1)B-1								
	REDUCER TO PIPE	B-J	VOL	UTP-10	UT-11			
			SUR	PTP-1				
PWS-28-10								
	PWS	N/A	N/A	N/A				SEE NOTE #1
18RFW(1)B-2								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-11			
			SUR	PTP-1				
12RFW(1)BE-1								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
PWS-28-9								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)BE-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)BE-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
PWS-28-11								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)BE-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RFW(1)BE-5	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BE-5A	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
PWS-28-4	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-28-3	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)BE-6	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BE-7	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BE-8	PIPE TO SE EXT	B-J	VOL SUR	UTP-10 PTP-1	UT-15			
12RFW(1)BE-9	SE EXT-SE STUB	B-F	VOL SUR	UTP-31 PTP-1	UT-106			
12RFW(1)BE-10	SE STUB TO SE	B-J	VOL SUR	UTP-31 PTP-1	UT-105			
12RFW(1)BE-11	SE TO N4	B-F	VOL SUR	UTP-31 PTP-1	UT-102			
18RFW(1)B-3	TEE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-11			
18RFW(1)B-4	PIPE TO REDUCER	B-J	VOL SUR	UTP-10 PTP-1	UT-11			
12RFW(1)BD-1	REDUCER TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-15			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-102

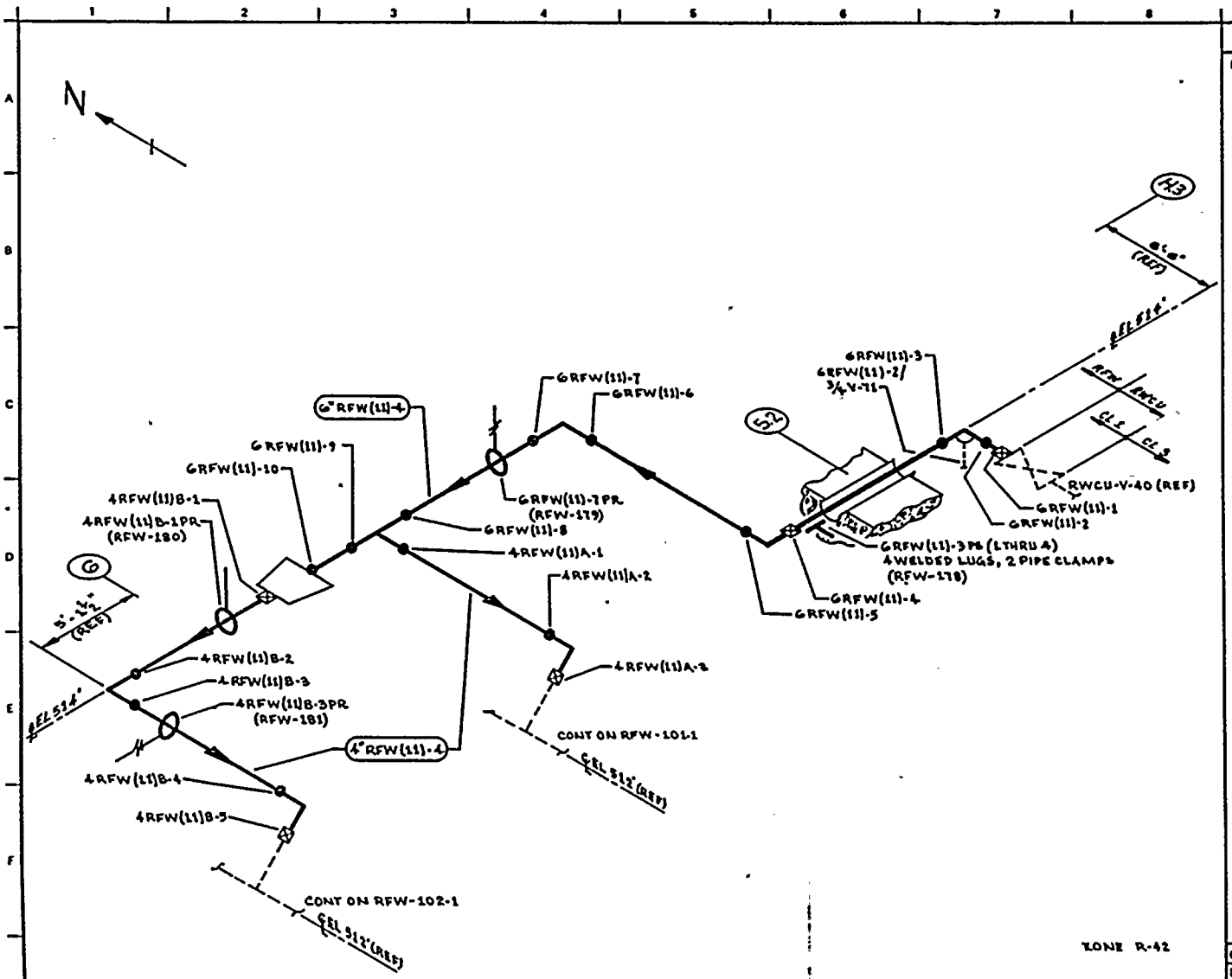
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
PWS-28-12								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)BD-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)BD-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
PWS-28-8								
	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-28-7								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)BD-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)BD-5								
	EL TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
PWS-28-6								
	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-28-5								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RFW(1)BD-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)BD-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)BD-8								
	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-15			
			SUR	PTP-1				
12RFW(1)BD-9								
	SE EXT-SE STUB	B-F	VOL	UTP-31	UT-106			
			SUR	PTP-1				
12RFW(1)BD-10								
	SE STUB TO SE	B-J	VOL	UTP-31	UT-105			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RFW(1)BD-11								
	SE TO N4	B-F	VOL	UTP-31	UT-102			
			SUR	PTP-1				
RFW-PB-102								
	RFW PRES BNDRY	B-P	VT-2	QCS&I-002				



NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RFW-438-1.2	REV 5
RFW-438-3	REV 3
RFW-438-1.2 H	REV 0
RFW-438-3H	REV 0

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RFW(11)-4	6	80	0.432	SA 106 GR B	CS	UT-28
4" RFW(11)-4	4	80	0.337	SA 106 GR B	CS	UT-30

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED, DELETED 3" PIPING	KMcA		
0	12-22-78	ISSUED FOR USE	KMcA		
A	12-1-78	ISSUED FOR INFORMATION ONLY	KMcA	DCJ	DWB

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: W.M.c.A. | DATE: 3-15-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER
RWCU/CRD INTERTIE

DWG NO: RFW-103 | REV 1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(11)-4
DESCRIPTION: REACTOR FEEDWATER

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RFW(11)-1								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RFW(11)-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RFW(11)-2/3/4V-71								
	TEST CONN	B-P	VT-2	QCS&I-002				
6RFW(11)-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RFW-178(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RFW-178								
	RIGID HANGER	B-K-2	VT-3	QCS&I-002				
6RFW(11)-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RFW(11)-5								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RFW(11)-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RFW(11)-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RFW-179								
	SPRING HANGER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
6RFW(11)-8								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
4RFW(11)A-1								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RFW-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RFW(11)-4
DESCRIPTION: REACTOR FEEDWATER

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
4RFW(11)A-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RFW(11)A-3								
	EL TO SLEEVE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
6RFW(11)-9								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RFW(11)-10								
	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
4RFW(11)B-1								
	REDUCER TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
RFW-180								
	RIGID HANGER	B-K-2	VT-3	QCS&I-002				
4RFW(11)B-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RFW(11)B-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
RFW-181								
	SPRING HANGER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
4RFW(11)B-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RFW(11)B-5								
	EL TO SLEEVE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
RFW-PB-103								
	RFW PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(2)A-1								
	NOZ TO SE	B-F	VOL	UTP-31	UT-101			
			SUR	PTP-1				
24RRC(2)A-2								
	SE TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-2LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-3LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-3								
	PIPE TO EL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-3LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-3LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-4LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-4LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-4								
	EL TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-4LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-4PR								
	PWS	N/A	N/A	N/A				SEE NOTE #1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(2)A-5LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-5	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-5LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
RRC-HA-1(W)	4 WELDED LUGS	B-K-1	VOL SUR	UTP-10 PTP-1	UT-7			
RRC-HA-1	HANGER	B-K-2	VT-3	QCS&I-002				
24RRC(2)A-5/PR1	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(2)A-6LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-6	PIPE TO TEE	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-6LDI	TEE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-6LDO	TEE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-7LUI	TEE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-7LUO	TEE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-7	TEE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-7			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(2)A-7LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-7/3/4PS-N018								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)A-7/3/4PX-1A								
	INSTR CONN	B-P	VT-2	QCS&I-002				
RRC-SA-2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-SA-1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
24RRC(2)A-7PR3								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(2)A-8LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-8								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-8LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-8LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-8/1PI(1)-45A								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)A-8/1PI(1)-45B								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)A-8/1PI(1)-45C								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)A-8/1PI(1)-45D								
	INSTR CONN	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
24RRC(2)A-9LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-9LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-9	EL TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-7			FITTING TO FITTING
RRC-V-23A/3/4V-28A	VALVE DRAIN	B-P	VT-2	QCS&I-002				
RRC-V-23A/3/4V-26A	VALVE VENT	B-P	VT-2	QCS&I-002				
RRC-V-23A-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RRC-V-23A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
24RRC(2)A-10	VALVE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-10LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(2)A-10/4RRC(8)-4S	PIPE TO SWL	B-J	SUR	PTP-1				
4RRC(8)2A-1	SWL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-31			
4RRC(8)2A-2	PIPE TO FLANGE	B-J	VOL SUR	UTP-10 PTP-1	UT-31			
4RRC(8)2A-2BD	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
24RRC(2)A-10/3/4TE-N028	INSTR CONN	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(2)A-10/4RRC(4)-4S								
	PIPE TO SWL	B-J	SUR	PTP-1				
24RRC(2)A-10/3/4TE-N023								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)A-10/3/4DPT-N015								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)A-10/3/4TE-N035								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)A-11LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-11								
	PIPE TO EL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-11LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-11LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-12LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-12LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)A-12								
	EL TO PUMP	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-13								
	PUMP TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-13LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(1)A-13/3/4DPT-N015								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(1)A-13/8CAP								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-13/8CAP-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-26			FITTING TO FITTING
			SUR	PTP-1				
24RRC(1)A-13/4RRC(8)-4S								
	PIPE TO SWL	B-J	SUR	PTP-1				
4RRC(8)1A-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-31			
			SUR	PTP-1				
4RRC(8)1A-2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-31			
			SUR	PTP-1				
4RRC(8)1A-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
24RRC(1)A-14LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-14								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
RRC-V-60A-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RRC-V-60A-BLT								
	VALVE BOLTING	B-G-1	VOL	UTP-33	UT-41			STUDS: UT ONLY IN PLACE. PT & UT WHEN REMOVED
			SUR	PTP-1				
			VT-1	QCS&I-002				
RRC-V-60A/3/4V-66A								
	VALVE DRAIN	B-P	VT-2	QCS&I-002				
24RRC(1)A-15								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(1)A-15LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-15PR	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(1)A-16LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-16	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-16LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-16LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
RRC-HA-7	HANGER	B-K-2	VT-3	QCS&I-002				
RRC-SA-7	SNUBBER	B-K-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
24RRC(1)A-17LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-17LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-17	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-17LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(1)A-17PR	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(1)A-18LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-18	PIPE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
RRC-V-67A/3/4V-71A	VALVE DRAIN	B-P	VT-2	QCS&I-002				
RRC-V-67A-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RRC-V-67A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RRC-V-67A/3/4V-69A	VALVE VENT	B-P	VT-2	QCS&I-002				
24RRC(1)A-19	VALVE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-19LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-19LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-20LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-20LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-20	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-20LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(1)A-20PR1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(1)A-20/12RRC(7)-4S								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-20/12CAP								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-20/12CAP-1								
	SWL TO CAP	B-J	VOL	UTP-10	UT-19			FITTING TO FITTING
			SUR	PTP-1				
RRC-SA-8								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-SA-9								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
24RRC(1)A-20PR4								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(1)A-20/3/4D0-14								
	SAMPLE CONN	B-P	VT-2	QCS&I-002				
24RRC(1)A-21LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-21								
	PIPE TO CROSS	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-21LDI								
	CROSS SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-21LDO								
	CROSS SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)A-22LUI								
	CROSS SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(1)A-22LUO	CROSS SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)A-22	CROSS-REDUCER	B-J	VOL SUR	UTP-10 PTP-1	UT-7			FITTING TO FITTING
16RRC(1)A-1	CROSS TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)A-1LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)A-1PR1	PWS	N/A	N/A	N/A				SEE NOTE #1
RRC-HA-8	HANGER	B-K-2	VT-3	QCS&I-002				
16RRC(1)A-1/12RRC(1)-N2D	PIPE TO SWL	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)A-PR3	PWS	N/A	N/A	N/A				SEE NOTE #1
RRC-SA-12	SNUBBER	B-K-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
16RRC(1)A-1/12RRC(1)-N2E	PIPE TO SWL	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)A-2LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)A-2	PIPE TO CAP	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)A-3	CROSS TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-13			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
16RRC(1)A-3LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)A-3PR1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
RRC-HA-9								
	HANGER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RRC(1)A-3/12RRC(1)N2B								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)A-3PR3								
	PWS	N/A	N/A	N/A				SEE NOTE #1
RRC-SA-11								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RRC(1)A-3/12RRC(1)-N2A								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)A-4LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)A-4								
	PIPE TO CAP	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
12RRC(1)-N2A-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2A-1LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2A-1ALU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2A-1A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2A-1ALD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-/1PR	PWS	N/A	N/A	N/A				SEE NOTE #1
12RRC(1)-N2A-/2LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-/2LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-/2LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-/3LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-/3LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-3	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-/3LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-/4LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2A-4	PIPE TO SE EXT	B-J	VOL SUR	UTP-10 PTP-1	UT-19			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2A-6								
	SE TO NOZ	B-F	VOL	UTP-38	UT-111			
			SUR	PTP-1				
12RRC(1)-N2B-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-1LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-1ALU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-1A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-1ALD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-1PR								
	PWS	N/A	N/A	N/A				SEE NOTE #1
12RRC(1)-N2B-2LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-2LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-2LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-3LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2B-3LUI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-3	EL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-3LD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-4LU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-4	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2B-6	SE TO NOZ	B-F	VOL	UTP-38	UT-111			
			SUR	PTP-1				
12RRC(1)-N2C-1	REDUCER TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-1LD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-1ALU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-1A	PIPE TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-1ALD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-1PR	PWS	N/A	N/A	N/A				SEE NOTE #1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2C-2LU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-2	PIPE TO EL	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-2LDO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-2LDI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-3LUO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-3LUI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-3	EL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-3LD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-4LU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
12RRC(1)-N2C-/4LU	PIPE SEAM	B-J	SUR	PTP-1				
12RRC(1)-N2C-4	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2C-6	SE TO NOZ	B-J	VOL	UTP-38	UT-111			
			SUR	PTP-1				
12RRC(1)-N2D-1	SWL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2D-1LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-1ALU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-1A	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-1ALD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-1PR	PWS	N/A	N/A	N/A				SEE NOTE #1
12RRC(1)-N2D-2LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-2LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-2LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-3LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-3LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2D-3LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-4LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-4	PIPE TO SE EXT	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2D-6	SE TO NOZ	B-J	VOL SUR	UTP-38 PTP-1	UT-111			
12RRC(1)-N2E-1	SWL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2E-1LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2E-1ALU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2E-1A	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2E-1ALD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2E-1PR	PWS	N/A	N/A	N/A				SEE NOTE #1
12RRC(1)-N2E-2LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2E-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-19			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2E-2LDO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2E-2LDI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2E-3LUO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2E-3LUI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2E-3	EL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2E-3LD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2E-4LU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2E-4	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2E-6	SE TO NOZ	B-F	VOL	UTP-38	UT-111			
			SUR	PTP-1				
RRC-PB-101	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(2)B-1								
	NOZ TO SE	B-F	VOL	UTP-31	UT-101			
			SUR	PTP-1				
24RRC(2)B-2								
	SE TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-2LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-3LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-3								
	PIPE TO EL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-3LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-3LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-4LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-4LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-4								
	EL TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-4LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-4PR								
	PWS	N/A	N/A	N/A				SEE NOTE #1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(2)B-5LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-5								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-5LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
RRC-HB-1(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-10	UT-7			
			SUR	PTP-1				
RRC-HB-1								
	HANGER	B-K-2	VT-3	QCS&I-002				
24RRC(2)B-5PR1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(2)B-5PR2								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(2)B-5/3/4PS-N018								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)B-5/3/4PX-1B								
	INSTR CONN	B-P	VT-2	QCS&I-002				
RRC-SB-2								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-SB-1								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
24RRC(2)B-5PR5								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(2)B-6LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-6								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(2)B-6LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-6LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-6/1PI(1)-4SC								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)B-6/1PI(1)-4SD								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)B-6/1PI(1)-4SE								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)B-6/1PI(1)-4SF								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)B-7LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-7LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-7								
	EL TO VALVE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
RRC-V-23B/3/4V-28B								
	VALVE DRAIN	B-P	VT-2	QCS&I-002				
RRC-V-23B/3/4V-26B								
	VALVE DRAIN	B-P	VT-2	QCS&I-002				
RRC-V-23B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RRC-V-23B-BLT								
	VALVE BOLTING	B-M-2	VT-1	QCS&I-002				
24RRC(2)B-8								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-8LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(2)B-8/4RRC(8)-4S								
	PIPE TO SWL	B-J	SUR	PTP-1				
4RRC(8)2B-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-31			
			SUR	PTP-1				
4RRC(8)2B-2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-31			
			SUR	PTP-1				
4RRC(8)2B-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
24RRC(2)B-8/3/4TE-N028								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)B-8/4RRC(4)-4S								
	PIPE TO SWL	B-J	SUR	PTP-1				
24RRC(2)B-8/3/4TE-N023								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)B-8/3/4TE-N035								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(2)B-9LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-9								
	PIPE TO EL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-9LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-9LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-10LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(2)B-10LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(2)B-10								
	EL TO PUMP	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-11								
	PUMP TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-11LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-11/3/4DPT-N015								
	INSTR CONN	B-P	VT-2	QCS&I-002				
24RRC(1)B-11/8CAP								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-11/8CAP-1								
	SWL TO CAP	B-J	VOL	UTP-10	UT-26			FITTING TO FITTING
			SUR	PTP-1				
24RRC(1)B-11/4RRC(8)-4S								
	PIPE TO SWL	B-J	SUR	PTP-1				
4RRC(8)1B-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-31			
			SUR	PTP-1				
4RRC(8)1B-2								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-31			
			SUR	PTP-1				
4RRC(8)1B-2BD								
	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
24RRC(1)B-12LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-12								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
RRC-V-60B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RRC-V-60B-BLT								
	VALVE STUDS	B-G-1	VOL	UTP-10	UT-41			STUDS: UT WHEN IN PLACE. PT & UT WHEN REMOVED
			SUR	PTP-1				
			VT-1	QCS&I-002				
RRC-V-60B/3/4V-66B								
	VALVE DRAIN	B-P	VT-2	QCS&I-002				
24RRC(1)B-13								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-13LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-13PR								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(1)B-14LU								
	PIPE.SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-14								
	PIPE TO EL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-14LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-14LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
RRC-HB-7								
	HANGER	B-K-2	VT-3	QCS&I-002				
RRC-SB-7								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
24RRC(1)B-15LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
24RRC(1)B-15LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-15								
	EL TO PIPE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-15LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-15PR								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(1)B-16LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-16								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
RRC-V-67B/3/4V-71B								
	VALVE DRAIN	B-P	VT-2	QCS&I-002				
RRC-V-67B-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RRC-V-67B-BLT								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RRC-V-67B/3/4V-69B								
	VALVE VENT	B-P	VT-2	QCS&I-002				
24RRC(1)B-17								
	VALVE TO EL	B-J	VOL	UTP-10	UT-7			FITTING TO FITTING
			SUR	PTP-1				
24RRC(1)B-17LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-17LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-18LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
24RRC(1)B-18LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-18								
	EL SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-18LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-18PR1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(1)B-18/12RRC(7)-4S								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-18/12CAP								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-18/12CAP-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-19			FITTING TO FITTING
			SUR	PTP-1				
RRC-SB-8								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-SB-9								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
24RRC(1)B-18PR4								
	PWS	N/A	N/A	N/A				SEE NOTE #1
24RRC(1)B-19LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-19								
	PIPE TO CROSS	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				
24RRC(1)B-19LDI								
	CROSS SEAM	B-J	VOL	UTP-10	UT-7			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
24RRC(1)B-19LDO	CROSS SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)B-20LUI	CROSS SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)B-20LUO	CROSS SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-7			
24RRC(1)B-20	CROSS-REDUCER	B-J	VOL SUR	UTP-10 PTP-1	UT-7			FITTING TO FITTING
16RRC(1)B-1	CROSS TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)B-1LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)B-1PR1	PWS	N/A	N/A	N/A				SEE NOTE #1
RRC-HB-8	HANGER	B-K-2	VT-3	QCS&I-002				
16RRC(1)B-1/12RRC(1)-N2G	PIPE TO SWL	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)B-1PR3	PWS	N/A	N/A	N/A				SEE NOTE #1
RRC-SB-12	SNUBBER	B-K-2	VT-3 VT-4	QCS&I-002 QCS&I-002				
16RRC(1)B-1/12RRC(1)-N2F	PIPE TO SWL	B-J	VOL SUR	UTP-10 PTP-1	UT-13			
16RRC(1)B-2LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-13			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
16RRC(1)B-2								
	PIPE TO CAP	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)B-3								
	CROSS TO PIPE	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)B-3LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)B-3PR1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
RRC-HB-9								
	HANGER	B-K-2	VT-3	QCS&I-002				
16RRC(1)B-3/12RRC(1)-N2J								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)B-3PR3								
	PWS	N/A	N/A	N/A				SEE NOTE #1
RRC-SB-11								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
16RRC(1)B-3/12RRC(1)-N2K								
	PIPE TO SWL	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)B-4LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
16RRC(1)B-4								
	PIPE TO CAP	B-J	VOL	UTP-10	UT-13			
			SUR	PTP-1				
12RRC(1)-N2F-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2F-1LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2F-1ALU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-1A	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-1ALD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-1PR	PWS	N/A	N/A	N/A				SEE NOTE #1
12RRC(1)-N2F-2LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-2LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-2LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-3LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-3LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-3LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
12RRC(1)-N2F-4LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-4	PIPE TO SE EXT	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2F-6	SE TO NOZ	B-F	VOL SUR	UTP-38 PTP-1	UT-111			
12RRC(1)-N2G-1	SWL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2G-1LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2G-1ALU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2G-1A	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2G-1ALD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2G-1PR	PWS	N/A	N/A	N/A				SEE NOTE #1
12RRC(1)-N2G-2LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2G-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2G-2LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2G-2LDI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2G-3LUO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2G-3LUI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2G-3	EL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2G-3LD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2G-4LU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2G-4	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2G-6	SE TO NOZ	B-F	VOL	UTP-38	UT-111			
			SUR	PTP-1				
12RRC(1)-N2H-1	REDUCER TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2H-1LD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2H-1ALU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2H-1A	PIPE TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
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DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2H-1ALD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-1PR	PWS	N/A	N/A	N/A	UT-19			SEE NOTE #1
12RRC(1)-N2H-2LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-2LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-2LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-3LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-3LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-3	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-3LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-4LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2H-4	PIPE TO SE EXT	B-J	VOL SUR	UTP-10 PTP-1	UT-19			

WNP-02
INTERVAL: PSI
PERIOD: NA
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
12RRC(1)-N2H-6	SE TO NOZ	B-F	VOL	UTP-38	UT-111			
			SUR	PTP-1				
12RRC(1)-N2J-1	SWL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2J-1LD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2J-1ALU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2J-1A	PIPE TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2J-1ALD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2J-1PR	PWS	N/A	N/A	N/A				SEE NOTE #1
12RRC(1)-N2J-2LU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2J-2	PIPE TO EL	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2J-2LDI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2J-2LDO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2J-3LUO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2J-3LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2J-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2J-3LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2J-4LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2J-4	PIPE TO SE EXT	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2J-6	SE TO NOZ	B-F	VOL SUR	UTP-38 PTP-1	UT-111			
12RRC(1)-N2K-1	SWL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2K-1LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2K-1ALU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2K-1A	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2K-1ALD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(1)-N2K-1PR	PWS	N/A	N/A	N/A				SEE NOTE #1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(1)-N2K-2LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-2LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-2LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-3LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-3LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-3LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-4LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-4								
	PIPE TO SE EXT	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(1)-N2K-6								
	SE TO NOZ	B-F	VOL	UTP-38	UT-111			
			SUR	PTP-1				
RRC-PB-102								
	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC-P-1A
DESCRIPTION: RRC LOOP A PUMP

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
RRC-P-HA2	HANGER	B-K-2	VT-3	QCS&I-002				
RRC-P-HA3	HANGER	B-K-2	VT-3	QCS&I-002				
RRC-P-HA4	HANGER	B-K-2	VT-3	QCS&I-002				
RRC-P-HA5	HANGER	B-K-2	VT-3	QCS&I-002				
RRC-P-RA1	LUG	B-K-1	SUR	PTP-1				
			VT-3	QCS&I-002				
RRC-P-SA6(W)	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-P-SA6	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-P-SA3	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-P-SA4	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-P-SA5	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-P-1A-BLT	PUMP BOLTING	B-G-1	VOL	UTP-33	UT-41			STUDS: UT WHEN IN PLACE. UT & PT WHEN REMOVED
			SUR	PTP-1				
			VT-1	QCS&I-002				
RRC-P-1A-BDY	PUMP BODY	B-M-2	VT-1	QCS&I-002				
RRC-P-HB2	HANGER	B-K-2	VT-3	QCS&I-002				

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC-P-1A
DESCRIPTION: RRC LOOP A PUMP

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
RRC-P-HB3								
	HANGER	B-K-2	VT-3	QCS&I-002				
RRC-P-HB4								
	HANGER	B-K-2	VT-3	QCS&I-002				
RRC-P-HB5								
	HANGER	B-K-2	VT-3	QCS&I-002				
RRC-P-RB1								
	LUG	B-K-1	SUR	PTP-1				
			VT-3	QCS&I-002				
RRC-P-SB6								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-P-SB3								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-P-SB4								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-P-SB5								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RRC-P-1B-BLT								
	PUMP BOLTING	B-G-1	VOL	UTP-33	UT-41			STUDS: UT WHEN IN PLACE. UT & PT WHEN REMOVED
			SUR	PTP-1				
			VT-1	QCS&I-002				
RRC-P-1B-BDY								
	PUMP BODY	B-M-2	VT-1	QCS&I-002				
RRC-PB-103								
	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(51)-4
DESCRIPTION: RPV DRAIN

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
2RRC(51)-1	NOZ TO FORG.	B-J		N/A				INACCESSABLE DUE TO CRD HOUSINGS.
2RRC(51)-2	FORG. TO PIPE	B-J		N/A				INACCESSABLE DUE TO CRD HOUSINGS.
2RRC(51)-3	PIPE TO REDUCER	B-J	SUR	PTP-1				
3RRC(51)-1	REDUCER TO EL	B-J	SUR	PTP-1				
3RRC(51)-2	EL TO PIPE	B-J	SUR	PTP-1				
3RRC(51)-2/1/1/4TE-N021	PIPE TO SOL	B-J	SUR	PTP-1				
3RRC(51)-3	PIPE TO EL	B-J	SUR	PTP-1				
3RRC(51)-4	EL TO PIPE	B-J	SUR	PTP-1				
3RRC(51)-5	PIPE TO REDUCER	B-J	SUR	PTP-1				
4RRC(51)-1	REDUCER TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-30			
4RRC(51)-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-30			
4RRC(51)-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-30			
4RRC(51)-4	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-30			
4RRC(51)-5	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-30			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(51)-4
DESCRIPTION: RPV DRAIN

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
4RRC(51)-5/1PI(1)-4S	INSTR CONN	B-P	VT-2	QCS&I-002				
PWS-51-1	PWS	N/A	N/A	N/A				SEE NOTE #1
4RRC(51)-5/2RRC(51)-4A	PIPE TO WOL	B-J	SUR	PTP-1				
2RRC(51)-4	WOL TO PIPE	B-J	SUR	PTP-1				
2RRC(51)-5	PIPE TO EL	B-J	SUR	PTP-1				
2RRC(51)-6	EL TO PIPE	B-J	SUR	PTP-1				
2RRC(51)-7	PIPE TO VALVE	B-J	SUR	PTP-1				
4RRC(51)-5/2RRC(51)-4B	PIPE TO SOL	B-J	SUR	PTP-1				
4RRC(51)-6	PIPE TO VALVE	B-J	SUR	PTP-1				
2RRC(51)-8	SOL TO PIPE	B-J	SUR	PTP-1				
2RRC(51)-9	PIPE TO VALVE	B-J	SUR	PTP-1				
RRC-V-29-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
2RRC(51)-10	VALVE TO PIPE	B-J	SUR	PTP-1				
2RRC(51)-11	PIPE TO VALVE	B-J	SUR	PTP-1				
RRC-V-30-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RRC-PB-104	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(6)-4S
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
20RRC(6)-1								
	PIPE/REDUCE TEE	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-1LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-2LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-2LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-2LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-3LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-3LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-3LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-4LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-4								
	PIPE SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(6)-4S
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
20RRC(6)-4LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-4LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-4/3/4DPIS-N012E								
	INSTR CONN	B-P	VT-2	QCS&I-002				
20RRC(6)-4/3/4DPIS-N012F								
	INSTR CONN	B-P	VT-2	QCS&I-002				
20RRC(6)-5LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-5LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-5								
	EL TO PIPE	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-5LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
PWS-8-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
20RRC(6)-6LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-6LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				
20RRC(6)-6LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-9			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(6)-4S
DESCRIPTION: RHR SHUTDN COOL SUCT

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
20RRC(6)-7LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-9			
20RRC(6)-7LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-9			
20RRC(6)-7	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-9			
20RRC(6)-7LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-9			
PWS-8-2	PWS	N/A	N/A	N/A				SEE NOTE #1
20RRC(6)-7ALU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-9			
20RRC(6)-7A	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-9			
20RRC(6)-7ALD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-9			
20RRC(6)-8LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-9			
20RRC(6)-8	PIPE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-9			
RRC-PB-105	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(7)-4S
DESCRIPTION: SHUTDN COOL RETURN A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
12RRC(7)A-1	VALVE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-1LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-2LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-2	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-2LDI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-2LDO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-3LUI	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-3LUO	EL SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-3	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-3LD	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-4LU	PIPE SEAM	B-J	VOL SUR	UTP-10 PTP-1	UT-19			
12RRC(7)A-4	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-19			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(7)-4S
DESCRIPTION: SHUTDN COOL RETURN A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(7)A-4LDI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)A-4LDO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)A-5LUI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)A-5LUO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)A-5	EL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)A-5LD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)A-6LU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)A-6	PIPE TO SWL	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
RRC-PB-106	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-107

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(7)-4S
DESCRIPTION: SHUTDN COOL RETURN B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
12RRC(7)B-1								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-1LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-2LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-2LDI								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-2LDO								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-3LUI								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-3LUO								
	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-3LD								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-4LU								
	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-107

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(7)-4S
DESCRIPTION: SHUTDN COOL RETURN B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
12RRC(7)B-4LDI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-4LDO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-5LUI	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-5LUO	EL SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-5	EL TO PIPE	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-5LD	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-6LU	PIPE SEAM	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
12RRC(7)B-6	PIPE TO SWL	B-J	VOL	UTP-10	UT-19			
			SUR	PTP-1				
RRC-PB-107	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-108

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
4RRC(4)A-1								
	SOL TO PIPE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)A-2								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)A-3								
	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
PWS-36-13								
	PWS	N/A	N/A	N/A				SEE NOTE #1
4RRC(4)A-4								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)A-5								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)A-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)A-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
PWS-36-12								
	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-36-11								
	PWS	N/A	N/A	N/A				SEE NOTE #1
4RRC(7)A-8								
	PIPE TO EL	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(7)A-9								
	EL TO PIPE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
PWS-36-10								
	PWS	N/A	N/A	N/A				SEE NOTE #1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-108

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
4RRC(7)A-10								
	PIPE - VALVE SE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(7)A-11								
	SE TO VALVE	B-F	VOL	UTP-31	UT-29			DISSIMILAR METAL (SS-CS)
			SUR	PTP-1				
RRC-PB-108								
	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-109

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC B

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
4RRC(4)B-1								
	SWL TO PIPE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
PWS-36-9								
	PWS	N/A	N/A	N/A				SEE NOTE #1
4RRC(4)B-2								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)B-3								
	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)B-4								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)B-5								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
PWS-36-7								
	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-36-8								
	PWS	N/A	N/A	N/A				SEE NOTE #1
4RRC(4)B-6								
	PIPE TO EL	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)B-7								
	EL TO PIPE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
PWS-36-6								
	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-36-24								
	PWS	N/A	N/A	N/A				SEE NOTE #1
4RRC(4)B-8								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)B-9								
	PIPE TO EL	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-109

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC B

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
4RRC(4)B-10								
	EL TO PIPE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
PWS-36-28								
	PWS	N/A	N/A	N/A				SEE NOTE #1
4RRC(4)B-11								
	PIPE - VALVE SE	B-J	VOL	UTP-10	UT-29			
			SUR	PTP-1				
4RRC(4)B-12								
	SE TO VALVE	B-J	VOL	UTP-10	UT-29			DISSIMILAR METAL (SS-CS)
			SUR	PTP-1				
RRC-PB-108								
	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-110

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(6)-4S
DESCRIPTION: RRC LOOP A DRAIN

DATE 11/13/80

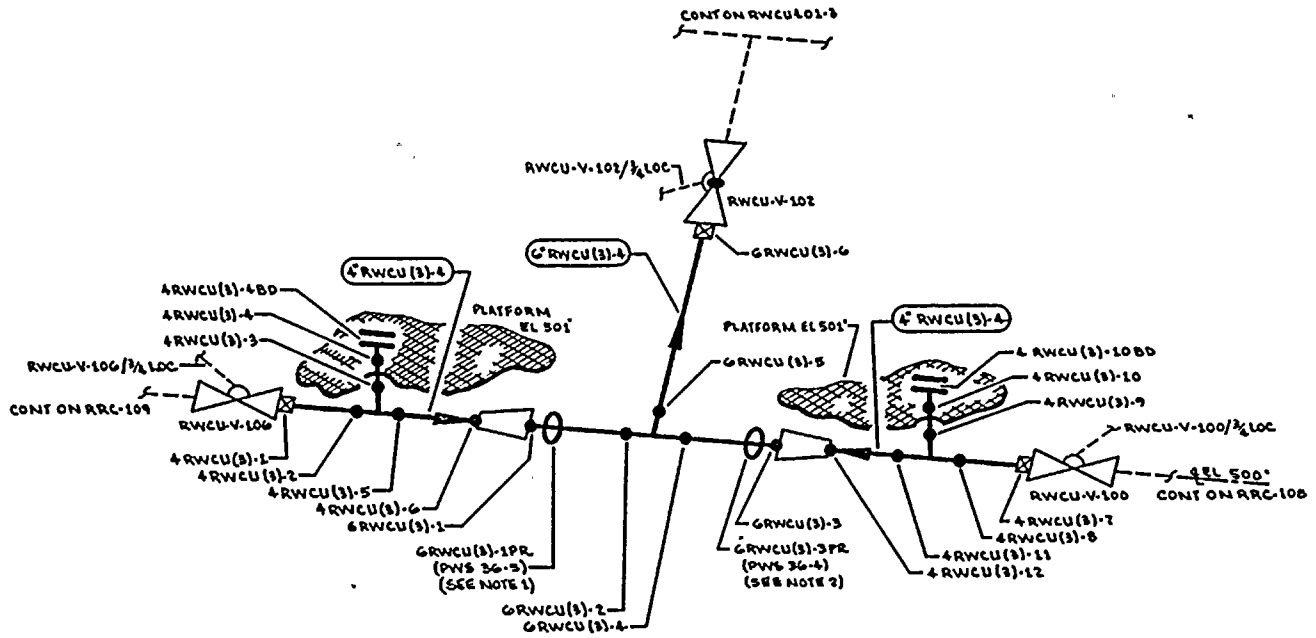
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
2RRC(6)A-1	REDUCER TO EL	B-J	SUR	PTP-1				
2RRC(6)A-2	EL TO PIPE	B-J	SUR	PTP-1				
2RRC(6)A-3	PIPE TO EL	B-J	SUR	PTP-1				
2RRC(6)A-3A	EL TO PIPE	B-J	SUR	PTP-1				
2RRC(6)A-4	PIPE TO EL	B-J	SUR	PTP-1				
RRC-V-51A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
2RRC(6)A-5	VALVE TO PIPE	B-J	SUR	PTP-1				
2RRC(6)A-6	PIPE TO VALVE	B-J	SUR	PTP-1				
RRC-V-52A-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RRC-PB-110	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-111

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RRC(6)-4S
DESCRIPTION: RRC LOOP B DRAIN

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
2RRC(6)B-1	REDUCER TO EL	B-J	SUR	PTP-1				
2RRC(6)B-2	EL TO EL	B-J	SUR	PTP-1				
2RRC(6)B-3	EL TO PIPE	B-J	SUR	PTP-1				
2RRC(6)B-4	PIPE TO VALVE	B-J	SUR	PTP-1				
RRC-V-51B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
2RRC(6)B-5	VALVE TO PIPE	B-J	SUR	PTP-1				
2RRC(6)B-6	PIPE TO EL	B-J	SUR	PTP-1				
2RRC(6)B-7	EL TO PIPE	B-J	SUR	PTP-1				
2RRC(6)B-8	PIPE TO VALVE	B-J	SUR	PTP-1				
RRC-V-52B-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RRC-PB-111	RRC PRES BNDRY	B-P	VT-2	QCS&I-002				

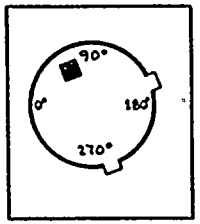


NOTES:

1. ACCESS TO WELD 6RWCU(3)-1 REQUIRES REMOVAL OF 6RWCU(3)-1PR.
2. ACCESS TO WELD 6RWCU(3)-3 REQUIRES REMOVAL OF 6RWCU(3)-3PR.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RWCU-812-1 REV 4



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: QA KUGLER	DRAWN: K.M&A DATE: 6-28-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

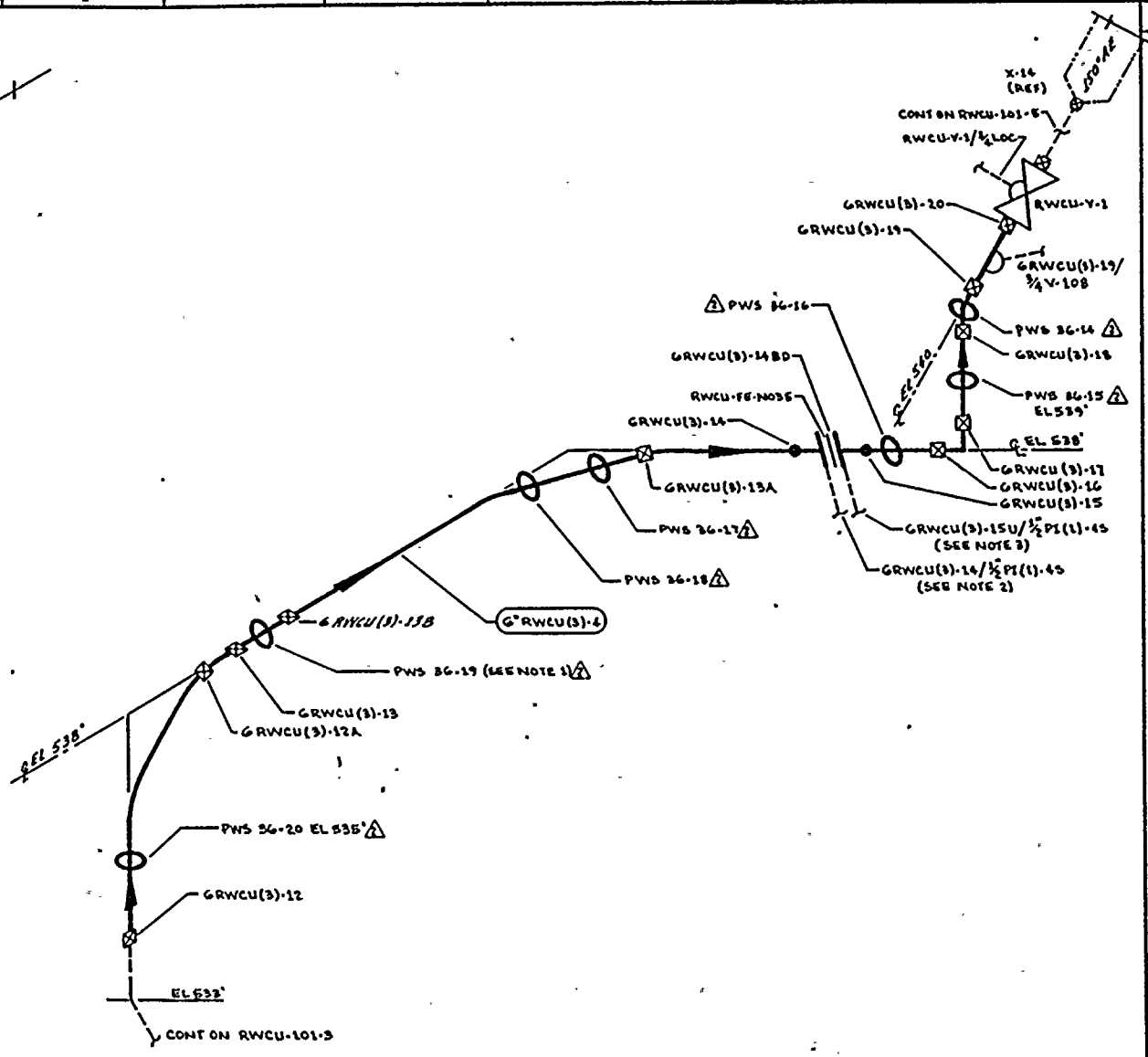
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4"RWCU(3)-4	4	80	0.337	SA 106 GR B	CS	UT-30
6"RWCU(3)-4	6	80	0.432	SA 106 GR B	CS	UT-28

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RRC LOOP SUPPLIED TO RWCU

DWG NO: RWCU-101-2 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	7-17-79	REVISED CAL BLOCK REF TO UT-28,30	K.M&A	[illegible]	[illegible]
0	11-22-78	ISSUED FOR USE	K.M&A	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M&A	DJ	[illegible]

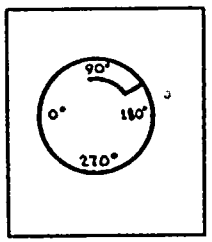


NOTES:

1. ACCESS TO WELD GRWCU(3)-13 REQUIRES REMOVAL OF GRWCU(3)-13PR1.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-79a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-79b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.

REFERENCED:

BOVEE & CRAIL ISOMETRIC
RWCU-812-3.7 REV 2



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RWCU(3)-4	6	80	0.432	SA 106 GR B	CS	UT-28

NO	DATE	REVISION	BY	CHKD	APPVD
2	11-5-80	ADDED FIELD WELD '13B' & AS NOTED	K.M.A	[illegible]	[illegible]
1	7-27-79	CHANGED CAL BLOCK FROM UT-27 TO UT-28, WELDS NO. 27, 28 & 29 TO FIELD WELDS. ADDED FIELD WELDS 13A & 12A.	K.M.A	[illegible]	[illegible]
0	12-22-78	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

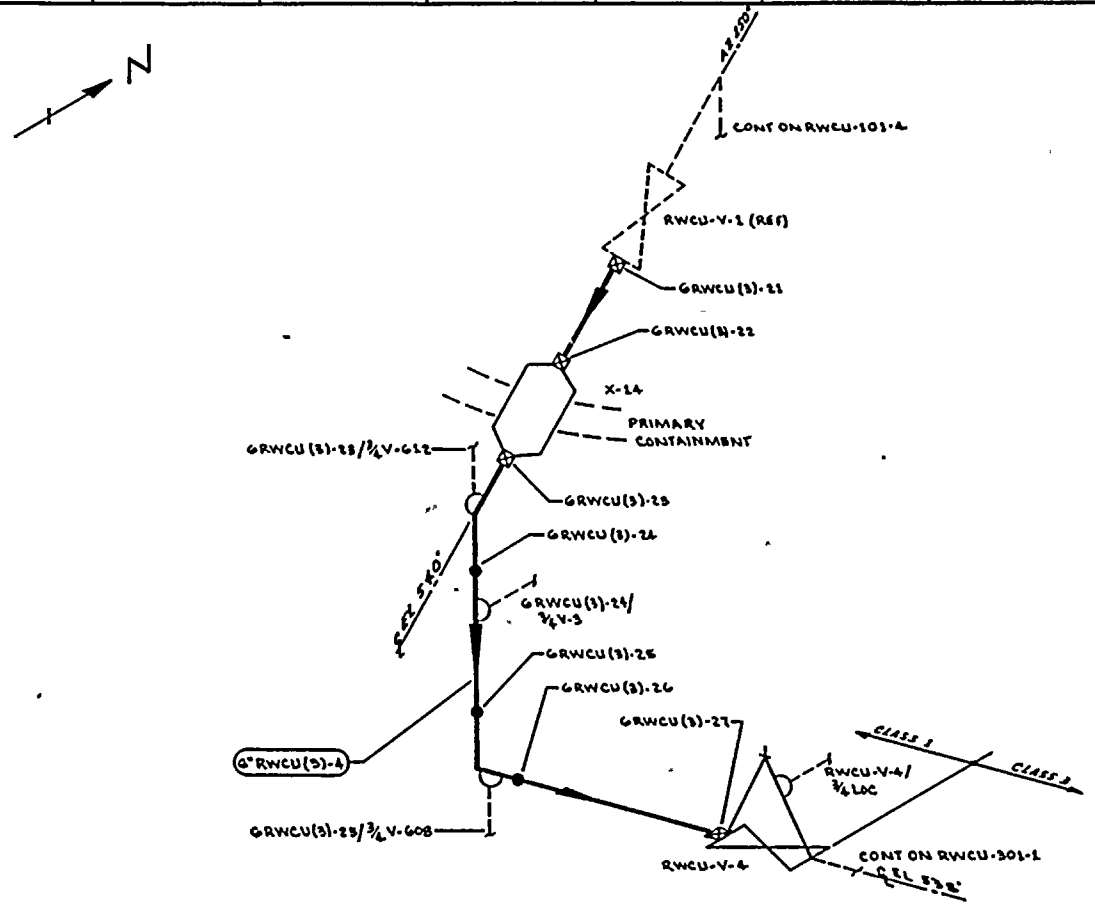
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D TIMMINS | DRAWN: K.M.A | DATE: 6-26-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

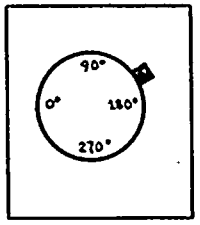
TITLE:
RWCU MAIN HEADER FROM RRC

DWG NO: RWCU-101-4 | REV 2



NOTES:

REFERENCES:
BOYCE & CRAIL ISOMETRIC
RWCU-812-B-13 REV 2



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K.M.L. DATE: 6-26-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RWCU(3)-4	6	80	0.432	SA 106 GR B	CS	UT-28

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RWCU MAIN HEADER FROM RRC

DWG NO: RWCU-101-5 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	7-17-79	REVISED CAL BLOCK REF TO UT-28	K.M.L.	[illegible]	[illegible]
0	11-13-78	ISSUED FOR USE	K.M.L.	[illegible]	[illegible]
A	9-13-78	ISSUED FOR INFORMATION ONLY	K.M.L.	DJ	[illegible]

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RWCU-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RWCU(4)-4
DESCRIPTION: RPV DRAIN TO RWCU

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
4RWCU(4)-1								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU(4)-1/2RWCU(4)-4								
	PIPE TO WOL	B-J	SUR	PTP-1				
2RWCU(4)-1								
	VALVE TO PIPE	B-J	SUR	PTP-1				
2RWCU(4)-2								
	PIPE TO EL	B-J	SUR	PTP-1				
2RWCU(4)-3								
	EL TO PIPE	B-J	SUR	PTP-1				
2RWCU(4)-4								
	PIPE TO WOL	B-J	SUR	PTP-1				
PWS-36-23								
	PWS	N/A	N/A	N/A				SEE NOTE #1
RWCU-IC-17(W)								
	8 WELDED LUGS	B-K-1	VOL	UTP-26	UT-28			
			SUR	PTP-1				
RWCU-IC-17								
	SNUBBER	B-K-2	VT-3	QCS&I-002				
			VT-4	QCS&I-002				
RWCU-144-10(W)								
	4 WELDED LUGS	B-K-1	VOL	UTP-26	UT-28			
			SUR	PTP-1				
RWCU-144-10								
	HANGER	B-K-2	VT-3	QCS&I-002				
4RWCU(4)-2								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
PWS-36-22								
	PWS	N/A	N/A	N/A				SEE NOTE #1
4RWCU(4)-4								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU(4)-5								
	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RWCU-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RWCU(4)-4
DESCRIPTION: RPV DRAIN TO RWCU

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
6RWCU(4)-1								
	REDUCER TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
PWS-36-3								
	PWS	N/A	N/A	N/A				SEE NOTE #1
6RWCU(4)-2								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(4)-3								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(4)-4								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(4)-5								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
PWS-36-2								
	PWS	N/A	N/A	N/A				SEE NOTE #1
RWCU-V-106								
	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RWCU-V-106/3/4LOC								
	STEM LEAK OFF	B-P	VT-2	QCS&I-002				
4RWCU-(3)-1								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU-(3)-2								
	PIPE TO TEE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU-(3)-3								
	TEE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU-(3)-4								
	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RWCU-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RWCU(4)-4
DESCRIPTION: RPV DRAIN TO RWCU

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
4RWCU-(3)-4BD	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
4RWCU-(3)-5	TEE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU-(3)-6	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
RWCU-V-100	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RWCU-V-100/3/4LOC	STEM LEAK OFF	B-P	VT-2	QCS&I-002				
4RWCU-(3)-7	VALVE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU-(3)-8	PIPE TO TEE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU-(3)-9	TEE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU-(3)-10	PIPE TO FLANGE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU-(3)-10BD	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
4RWCU-(3)-11	TEE TO PIPE	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
4RWCU-(3)-12	PIPE TO REDUCER	B-J	VOL	UTP-10	UT-30			
			SUR	PTP-1				
6RWCU-(3)-1	REDUCER TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RWCU-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RWCU(4)-4
DESCRIPTION: RPV DRAIN TO RWCU

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
PWS-36-5	PWS	N/A	N/A	N/A				SEE NOTE #1
6RWCU-(3)-2	PIPE TO TEE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU-(3)-3	REDUCER TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
PWS-36-4	PWS	N/A	N/A	N/A				SEE NOTE #1
6RWCU-(3)-4	PIPE TO TEE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU-(3)-5	TEE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU-(3)-6	PIPE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
RWCU-V-102-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RWCU-V-102-BLT	VALVE BOLTING	B-M-2	VT-1	QCS&I-002				
RWCU-V-102/3/4LOC	STEM LEAK OFF	B-P	VT-2	QCS&I-002				
6RWCU(3)-7	VALVE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU(3)-8	PIPE TO TEE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU(3)-9	PIPE TO TEE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU(3)-10	TEE TO PIPE	B-J	VOL SUR	UTP-10 PTP	UT-28			

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RWCU-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RWCU(4)-4
DESCRIPTION: RPV DRAIN TO RWCU

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RWCU(3)-10/3/4V-605								
	DRAIN CONN	B-P	VT-2	QCS&I-002				
PWS-36-1								
	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-36-21								
	PWS	N/A	N/A	N/A				SEE NOTE #1
6RWCU(3)-11								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RWCU-IC-4PS(W)								
	8 WELDED LUGS	B-K-1	VOL	UTP-26	UT-28			
			SUR	PTP-1				
RWCU-IC-4PS								
	HANGER	B-K-2	VT-3	QCS&I-002				
6RWCU(3)-11A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-11B								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-11C								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-12								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
PWS-36-20								
	PWS	N/A	N/A	N/A				SE NOTE #1
6RWCU(3)-12A								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-13								
	PIPE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RWCU-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RWCU(4)-4
DESCRIPTION: RPV DRAIN TO RWCU

DATE 11/13/80

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
PWS-36-19	PWS	N/A	N/A	N/A				SEE NOTE #1
6RWCU(3)-13B	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
PWS-36-18	PWS	N/A	N/A	N/A				SEE NOTE #1
PWS-36-17	PWS	N/A	N/A	N/A				SEE NOTE #1
6RWCU(3)-13A	PIPE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU(3)-14	PIPE TO FLANGE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU(3)-14BD	FLANGE BOLTING	B-G-2	VT-1	QCS&I-002				
6RWCU(3)-15	FLANGE TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
PWS-36-16	PWS	N/A	N/A	N/A				SEE NOTE #1
6RWCU(3)-16	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU(3)-17	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
PWS-36-15	PWS	N/A	N/A	N/A				SEE NOTE #1
6RWCU(3)-18	PIPE TO EL	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
PWS-36-14	PWS	N/A	N/A	N/A				SEE NOTE #1

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RWCU-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RWCU(4)-4
DESCRIPTION: RPV DRAIN TO RWCU

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	INSERVICE SCHEDULED OUTAGE	NOTES
6RWCU(3)-19								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-19/3/4V-108								
	TEST CONN	B-P	VT-2	QCS&I-002				
6RWCU(3)-20								
	PIPE TO VALVE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
RWCU-V-1-BDY								
	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RWCU-V-1-BLT								
	VALVE BOLTING	B-M-2	VT-1	QCS&I-002				
RWCU-V-1/3/4LOC								
	STEM LEAK OFF	B-P	VT-2	QCS&I-002				
6RWCU(3)-21								
	VALVE TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-22								
	PIPE TO PENE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-23								
	PENE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-23/3/4V-612								
	VENT CONN	B-P	VT-2	QCS&I-002				
6RWCU(3)-24								
	EL TO PIPE	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-24/3/4V-3								
	TEST CONN	B-P	VT-2	QCS&I-002				
6RWCU(3)-25								
	PIPE TO EL	B-J	VOL	UTP-10	UT-28			
			SUR	PTP-1				
6RWCU(3)-25/3/4V-608								
	DRAIN CONN	B-P	VT-2	QCS&I-002				

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RWCU-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RWCU(4)-4
DESCRIPTION: RPV DRAIN TO RWCU

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	EXAM MTH.	PROCEDURE	CAL. BLOCK	INSERVICE REQ.	SCHEDULED OUTAGE	NOTES
6RWCU(3)-26	EL TO PIPE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
6RWCU(3)-27	PIPE TO VALVE	B-J	VOL SUR	UTP-10 PTP-1	UT-28			
RWCU-V-4-BDY	VALVE BODY	B-M-2	VT-1	QCS&I-002				
RWCU-V-4-BLT	VALVE BOLTING	B-G-2	VT-1	QCS&I-002				
RWCU-V-4/3/4LOC	STEM LEAK OFF	B-P	VT-2	QCS&I-002				
RWCU-PB-101	RWCU PRES BNDRY	B-P	VT-2	QCS&I-002				

Date 1/8/79
Revision 0

WNP-2 PSI PROGRAM PLAN

WELD AND COMPONENT IDENTIFICATION DIAGRAM

STANDBY SERVICE WATER (SSW)

L A T E R

NOTE: This system is subject only to a visual examination for evidence of leakage. Isometric drawings will be provided at a later date. See Section 7.0 for ISI Boundary Diagram for this system.

Date 1/8/79
Revision 0

WNP-2 PSI PROGRAM PLAN

WELD AND COMPONENT
IDENTIFICATION DIAGRAM

FUEL POOL COOLING (FPC)

L A T E R

NOTE: This system is subject only to a visual examination for evidence of leakage. Isometric drawings will be provided at a later date. See Section 7.0 for ISI Boundary Diagram for this system.

Date 1/8/79

Revision 0

WNP-2 PSI PROGRAM PLAN

WELD AND COMPONENT
IDENTIFICATION DIAGRAM

REACTOR CLOSED COOLING (RCC)

L A T E R

NOTE: This system is subject only to a visual examination for evidence of leakage. Isometric drawings will be provided at a later date. See Section 7.0 for ISI Boundary Diagram for this system.

10.0--PROCEDURES

This section contains a listing of the procedures which will be used to govern the preservice examination activities described in this Program Plan. The actual procedures are found in Volume 2. The revision of each procedure is given in the listing as a means of ensuring the use of the latest approved procedure by the examiners. Also described in this section are the exceptions to the reference code (see Section 4.0) which are reflected in the procedures.

10.1 PROCEDURE LIST

The procedure list at the end of this section identifies each of the procedures applicable to the WNP-2 Preservice Inspection activities and its current revision number. The tab number for each procedure location in Volume 2 is also given for convenience.

10.2 CODE EXCEPTIONS

The procedures comply to the extent practical to the reference code However, there are some exceptions to that code which are stated below, along with the justification for each exception:

1. Use of Appendix III From the Winter 1975 Addenda

   The ultrasonic examination procedure governing the examination of piping welds, UTP-10, reflects the guidelines of ASME Section XI, Appendix III, entitled "Ultrasonic Examination Method for Class 1 and 2 Piping Systems Made From Ferritic Steels", which was introduced with the Winter 1975 addenda to 1974 Edition. This Appendix is assumed to be acceptable to the NRC based on the absence of any concern expressed over its use in the draft revision to 10CFR50 published by the NRC in April of 1978, which proposes to accept the addenda to Section XI through the Summer 1978 addenda to the 1977 Edition. The use of this Appendix has also been approved at a number of other nuclear power plants.

The use of Appendix III for piping welds is considered by the Supply System to be more appropriate than the use of Appendix I to the ASME Section XI Code, which is applicable per the 1974 Edition of Section XI through the Summer 1975 addenda, as Appendix III is written to be specifically appliable to piping welds, whereas Appendix I is intended for use with thick-walled components such as pressure vessels, and was not intended for use with piping welds. Furthermore, Appendix III will apparently be applicable for subsequent inservice examinations, so it's use during the preservice examinations will provide for a better data comparison in the future.

2. Use of the Evaluation Criteria From Subarticle IWB-3000 of the Winter 1975 Addenda for Evaluation of Indications in Class 1 and Class 2 Piping

The Winter 1975 addenda to the 1974 edition of ASME Section XI introduced evaluation criteria for the examination of austenitic and ferritic piping welds, examination categories B-F and B-J, which were not previously included in Section XI. It is anticipated that it is these evaluation criteria that will be subsequently imposed inservice, as there are no known objections to those criteria which have been expressed by the NRC in their draft revision to 10CFR50 referenced in Item 1 above. Class 2 examinations will also be evaluated to IWB-3000.

3. Paragraph I-4230, Frequency Calibration - 12 Hour Vs. 4 Hour Calibration Check

This paragraph states that the calibration of the ultrasonic examination instrument system shall be checked at intervals not to exceed 4 hours. The Supply System will perform system calibration checks at intervals not to exceed 12 hours when using remote mechanized equipment. All other provisions of the paragraph will be complied with. This practice is justified in that it is impractical when conducting mechanized examinations to

remove the device from service to check the calibration after only 4 hours, as the examination of a single weld in a large vessel may require in excess of 4 hours when the setup and position calibration time is included. Each time the device is removed, it's positioning system must be recalibrated upon re-installing it. The percentage of equipment handling and positioning system calibration time compared to actual examination time becomes prohibitive, and offsets the confidence in UT system calibration with potential error in positioning system calibration.

Should the UT equipment be found to be unacceptably out of calibration following up to 12 hours of use, the equipment will be recalibrated and the examinations performed during that time period will be repeated.

Date 11/14/80
Revision 1

PROCEDURE LIST

PROCEDURE TITLE	NUMBER	REVISION	TAB
Magnetic Particle Examination	MTP-1	1	1
Liquid Penetrant Examination	PTP-1	1	2
Automatic Data Recording	UTP-6	0	3
Ultrasonic Examination of Nuclear Coolant System Piping	UTP-10	1	4
Ultrasonic Examination of Nozzle Forging Inner Radius	UTP-24	Later	5
Ultrasonic Examination of RPV Flange Weld	UTP-25	Later	6
UT of Hanger Lug Attachment Welds	UTP-26	Later	7
Ultrasonic Examination of Nozzle-to-Vessel Welds	UTP-XX	Later	8
Ultrasonic Examination of Flange Ligaments	UTP-28	Later	9
Beam Spread Measurement	UTP-14	Later	10
Ultrasonic Examination of RPV Butt Welds and Adjacent Base Metal	UTP-30	Later	11
Ultrasonic Examination of Austenitic and Inconel Safe End Forgings	UTP-31	Later	12
Ultrasonic Examination of RPV Studs	UTP-32	Later	13
Ultrasonic Examination of Component Studs and Bolts	UTP-34	Later	14
Ultrasonic Examination of the RPV Support Skirt Weld	UTP-27	Later	15
Ultrasonic Examination of Main Steam Flued Head	UTP-33	Later	16
Manual UT of RHR Ht. Exchanger Butt Welds	UTP-17	Later	17
Manual UT Exam of RV Nozzle Bore Section	UTP-18	Later	18
Manual UT of RV Flange Ligaments from RV Flange O.D.	UTP-15	Later	19
Weld Marking Procedure	MEP-2	0	22
Visual Examinations of Nuclear Power Plant Components	QCS&I-002	0	23

Date 11/14/80
Revision 2

PROCEDURE LIST

PROCEDURE TITLE	NUMBER	REVISION	TAB
Document Control for the WNP-2 Preservice Inspection (Volumetric and Surface Examinations)	QA-28	0	24
Preservice Inspection	INP 3-3	1	25
Examination Data	INP 3-10	0	26
Data Evaluation	INP 3-11	0	27
Control of Inservice Inspection Activities	EDP-9.0	0	28
Preparation of PSI Plan	EDP-9.2	0	29
Conduct of Preservice Examinations	EDP-9.3	0	30
WNP-2 PSI Notification of Reportable Indication	QA-31	0	31
Remote UT of Nozzle Forging Inner Radius Sections	UTP-36	Later	32
Remote UT of RV Bottom Head Welds	UTP-37	Later	33
Remote UT of Safe End Attachment Welds (Pipe-to-Pipe)	UTP-38	Later	34
Remote UT of RV Circ. and Long Butt Welds	UTP-40	Later	35
Remote UT of RV Nozzle-to-Vessel Welds	UTP-41	Later	36
Remote System Data Recording	UTP-42	Later	37
Nozzle-to-Shell Device Assy. and Operating Procedure	UTP-44	Later	38
Butt Weld Examination Device Assy. and Operating Procedure	UTP-45	Later	39
	SLT-S201.0	Later	40
		Later	41

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WNP-2 PROCEDURE COVER SHEET AND QUALIFICATION RECORD

Procedure No. MEP-2 Revision No. 0

Procedure Title WELD MARKING PROCEDURE

LMT, Inc. QA Review and Approval D B MacGill 1-16-79
(Quality Assurance Officer)

Client Approval Daniel W. Porter 3/5/79 (Lead ISI Engr)

Authorized Nuclear Inpsector ~~Approval~~ Review to L M Fowler 3/6/79

Specific Qualification Record

Component	Examiners	Date

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

REVIEW OF CONTRACTOR SUBMITTALS

WNP 2	ISI ENGINEER THOMAS F. Hoyle	DATE 1/25/79
CONTRACT NO. C-14402	TITLE PSI Services for NSSS And Associated Nuclear Piping	
CONTRACTOR LMT, INC.		

DOCUMENT TITLE	REV.
WELD MACKING Procedure MEP-2	0

PREVIOUSLY REVIEWED ☐ YES ☒ NO (DATE IF YES) _____

PREVIOUSLY APPROVED ☐ YES ☒ NO (DATE IF YES) _____

REASONS FOR RE-SUBMITTAL (IF PREVIOUSLY APPROVED)

REVIEWER	DISPOSITION: APPROVED	APPROVED AS NOTED	DISAPPROVED	COMMENTS ATTACHED
L J Blomberg 1-20-79 — SUPERVISOR, ISI AND OPERATIONS SUPPORT ENGINEER	—	X		
NA — PROJECT ENGINEERING MANAGER/PLANT TECHNICAL SUPERVISOR	NA			
Ken J. Hamrick 2-3-79 — SUPERVISOR, ISI/NDE, GENERATION SERVICES	X			
for Rich. Koch 2/7/79 — MANAGER, QUALITY SERVICES	X			

NOTES/COMMENTS:

page 1 Qualification Block should have "Approved for USE" typed in. done TFH 3/1/79 (by LMT)

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San Jose, Ca. 95112
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TITLE:

WELD MARKING PROCEDURE

I. PURPOSE AND SCOPE

A. Purpose

This procedure provides instructions for implementation of the requirements of the ASME Boiler and Pressure Vessel Code, Section XI, 1974 edition, addenda through Summer 1975, for weld identification and marking methods to be used during the Preservice Inspection (PSI) of the WNP-2 Nuclear Plant.

B. Scope

This procedure is applicable to austenitic and ferritic pipe welds.

II. REFERENCE DOCUMENTS

A. LMT Operating and Quality Assurance Manual, Addendum to Revision 10, approved for the WNP-2 PSI by WPPSS.

B. ASME Boiler and Pressure Vessel Code, Section XI, 1974 edition, Winter 1975 addenda.

QUALIFICATION:

Approved for use G R Lambert 1/17/79

D B MacGill 1-16-79

II. C. Contract No. C-14402, pages E-1 through E-5.

D. LMT Procedure QA-26, "WNP-2 Management Plan."

III. DEFINITIONS

None

IV. RESPONSIBILITY

The Technical Manager, LMT, Inc., is responsible for the generation and control of this procedure and shall so indicate by a dated signature on the cover sheet.

V. PROCEDURE QUALIFICATION

This procedure shall be considered qualified upon acceptance by the client and successful completion of an "example" weld.

VI. PERSONNEL REQUIREMENTS

A. This procedure shall be implemented under the direction of the LMT Field Supervisor and LMT examination personnel.

B. LMT personnel shall provide direction and control for the weld marking operations but are not necessarily required

VI. B. to perform hands-on operations. The actual marking operations may be performed by other client-employed personnel.

VII. EQUIPMENT AND MATERIALS REQUIREMENTS

A. Die stamps shall be one-quarter inch low stress dot type.

1. Stainless dies shall be used on stainless piping and alloy steel dies shall be used on carbon and alloy steel components.

VIII. PREPARATION

A. Documentation

1. The following documentation shall be submitted to the client for review before beginning the weld marking operations:
   a) Procedure
   b) Materials Certifications (for dies)
   c) Personnel Certifications

2. Progress reports may be submitted on a continuing basis, but not before the weld marking operation begins.

VIII. B. Physical Preparation

1. The following physical preparation requirements shall be reviewed by the examiner with the WPPSS ISI Field Coordinator before work is begun on individual systems or specific areas:
   a) Insulation removal
   b) Safety precautions (work in other areas, etc.)

C. Surface Preparation

Surfaces shall be sufficiently smooth and clean that in the judgment of the LMT examiner all marking operations at the given weld can be completed.

IX. LIMITATIONS

This procedure is specifically intended for use at the WNP-2 plant of the Washington Public Power Supply System (WPPSS) and may not be generally applicable to other projects.

X. CALIBRATION

Angle location around the weld shall be made from circumferential tape measurements at or near the weld. Nominal degree locations are shown in Figure 1.

XI. PERFORMANCE

A. Weld Identification

1. Welds identified by ISI identification numbers on Weld and Component Identification Diagrams found in Section 8 of the WPPSS Preservice Inspection Program Plan and indicated as requiring volumetric or surface examination on the associated Program Plan and Schedule Tables shall be physically marked with the appropriate ISI identification numbers shown on the Diagrams.
   a) Branch connections and fitting seam welds shall not be marked.

2. Identification numbers shall be located as conspicuously as possible and to the extent practical:
   a) parallel to the weld;
   b) entirely within a band between two and three inches from the weld centerline;
   c) on the downstream side of pipe-to-pipe welds;
   d) on the pipe side of pipe-to-fitting welds;
   e) on either side of seam welds.

XI. A. 3. Deviations from the above practice shall be approved in advance by the WPPSS ISI Field Coordinator.

4. Typical physical locations of markings are shown in Figure 2.

B. Weld Centerline and Reference Point Determination and Marking

1. Welds listed in the Program Plan and Schedule Tables in Section 8.0 of the WPPSS Preservice Inspection Plan as subject to volumetric examination shall be physically identified by the LMT examiner and centerlines and reference marks established according to the following rules as shown in Figure 3.

a) Weld centerline reference points shall be established by stamping a "+" at the visually determined center of the weld.

b) The number of reference points shall be according to Table 1.

Nominal Pipe Diameter	Reference Stamp Locators
8" or less	0°, 180°
Over 8" up to and including 16"	0°, 90°, 180°, 270°
Over 16" up to and including 30"	0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°

Table 1

XI. B. 1. c) The girth weld zero reference mark shall be located as follows:

1) At the TDC of horizontal pipe runs;

2) In line with the extension on the nearest elbow or fitting on vertical pipe;

3) At the upstream intersection of vertical branch piping with the horizontal pipe TDC when criteria 2) does not apply.

d) All reference marks (+) shall be identified with degree position stamped adjacent to the reference mark (+) between one and two inches from the weld centerline and parallel to the weld.

e) The longitudinal seam weld zero mark shall be located at the upstream girth weld.

f) Reference marks shall be located using a cloth tape measurement from reference zero according to Figure 1.

XII. EVALUATION

Each completed marked weld shall be evaluated by the LMT examiner for compliance with the requirements of this procedure.

XIII. RECORDS

Completion and acceptance of each weld shall be noted by the LMT examiner at the time of completion on a system ISO or other representative drawing and a copy of the marked drawing shall be submitted to the WPPSS ISI Field Coordinator as the marking of the piping shown on the drawing is completed. A typical isometric drawing is shown in Figure 4.

XIV. REVIEW

A. Records of weld identification are subject to review by the assigned LMT Level III examiner for conformity to the requirements of this procedure.

B. Following the final LMT review the records will be transmitted to the WPPSS ISI Field Coordinator for review by WPPSS and the ANI.

XV. STORAGE

A. Original documentation shall become the property of WPPSS upon sign-off of the ISI Field Coordinator. Additional reports which may include the documentation as reference material shall be generated from copies.

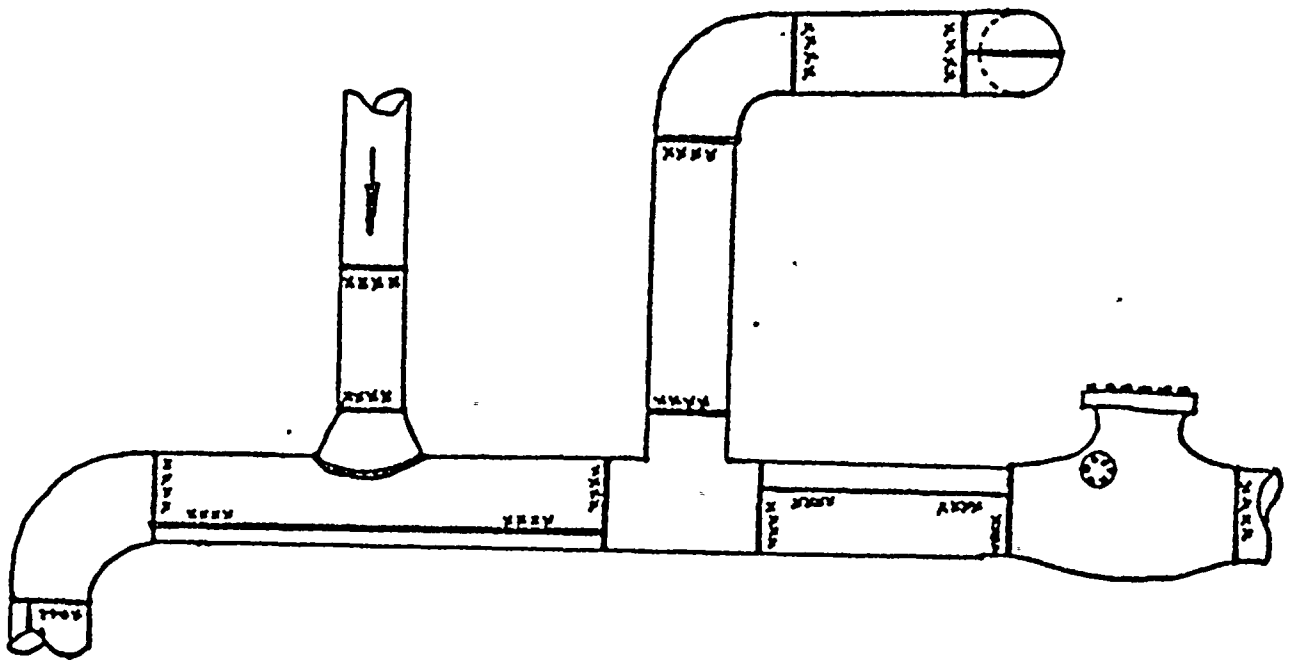
XV. B. Field storage facilities shall provide a safe storage area and access to files shall be limited to the LMT Field Supervisor and his designated representatives, WPPSS representatives, and the Authorized Nuclear Inspector.

SPECIFIC ANGLE LOCATIONS AROUND A PIPE'S CIRCUMFERENCE

Nominal Pipe Size	O.D.	Circum-ference	45°	90°	135°	180°	225°	270°	315°	360°
1"	1.315	4.13	.52	1.03	1.55	2.07	2.58	3.1	3.61	4.13
1½"	1.900	5.97	.75	1.49	2.24	2.98	3.73	4.48	5.22	5.97
2"	2.375	7.46	.93	1.87	2.80	3.73	4.66	5.6	6.53	7.46
2½"	2.875	9.03	1.13	2.26	3.39	4.52	5.65	6.77	7.90	9.03
3"	3.5	11.00	1.37	2.75	4.12	5.50	6.87	8.25	9.62	11.00
4"	4.5	14.14	1.77	3.53	5.30	7.07	8.84	10.6	12.37	14.14
6"	6.625	20.81	2.60	5.2	7.80	10.41	13.01	15.61	18.21	20.81
8"	8.625	27.10	3.39	6.77	10.16	13.55	16.94	20.32	23.71	27.10
10"	10.750	33.77	4.22	8.44	12.66	16.89	21.11	25.33	29.55	33.77
12"	12.75	40.06	5.01	10.01	15.02	20.03	25.03	30.04	35.05	40.06
14"	14.00	43.98	5.50	11.00	16.49	21.99	27.49	32.99	38.48	43.98
16"	16.00	50.27	6.28	12.57	18.85	25.13	31.42	37.70	43.98	50.27
18"	18.00	56.55	7.07	14.14	21.21	28.27	35.34	42.41	49.48	56.55
20"	20.00	62.83	7.85	15.71	23.56	31.42	39.27	47.12	54.98	62.83
22"	22.00	69.12	8.64	17.28	25.92	34.56	43.2	51.84	60.48	69.12
24"	24.00	75.40	9.42	18.85	28.27	37.70	47.12	56.55	65.97	75.40
26"	26.00	81.68	10.21	20.42	30.63	40.84	51.05	61.26	71.47	81.68
28"	28.00	87.96	11.00	21.99	32.99	43.98	54.98	65.97	76.97	87.96

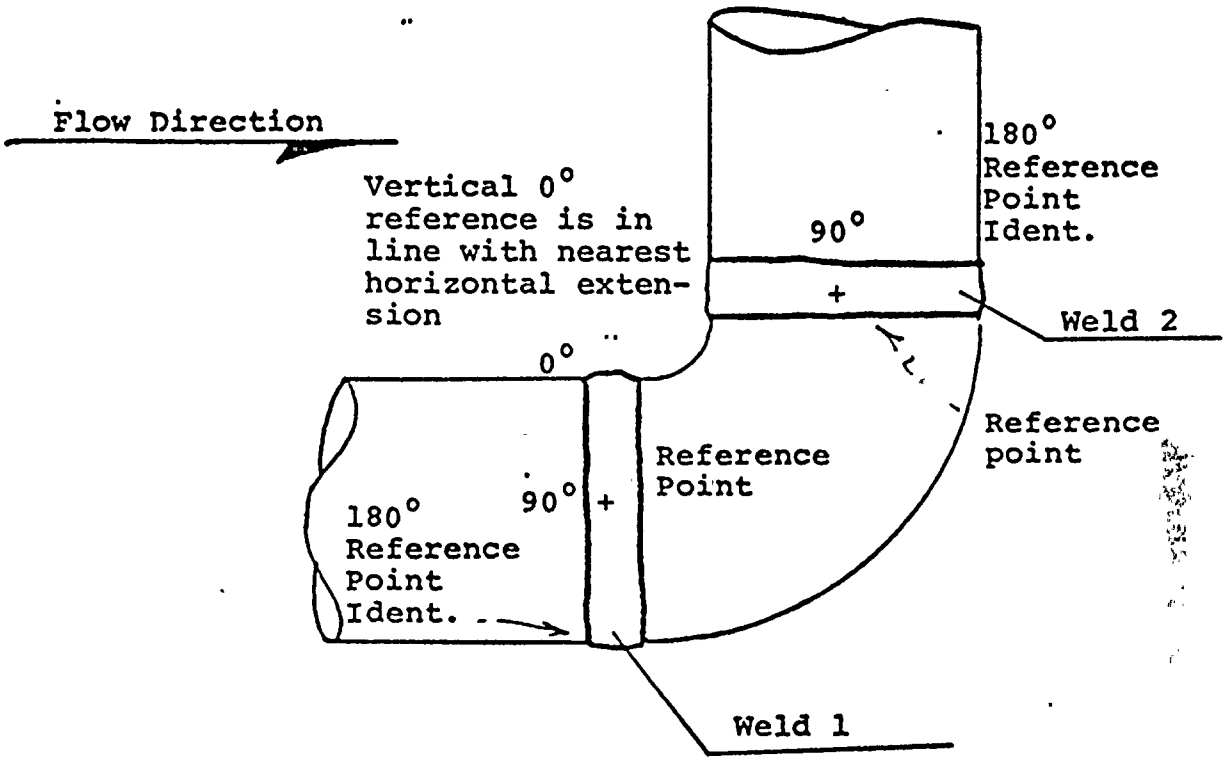
Figure 1

PROC. NO. MEP-2
PAGE 10
FOLLOWING PAGE 11



WELD IDENTIFICATION MARKING LOCATION

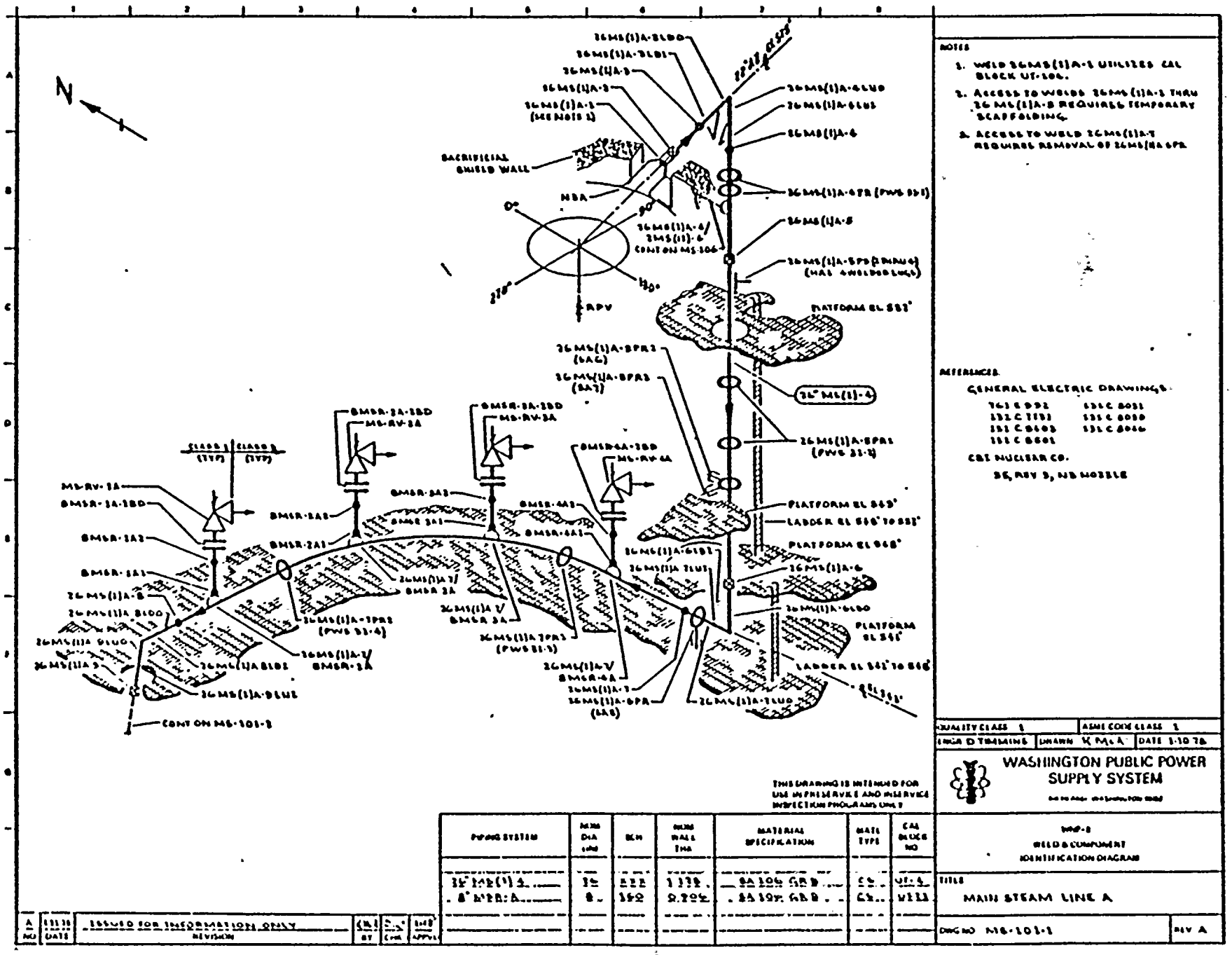
Figure 2



1. Reference arrow is always in the direction of flow.
2. Zero Reference is at Top Dead Center on a horizontal run.
3. For vertical runs, Zero Reference is on a line with 0 Reference on the nearest horizontal run or extension.

REFERENCE POINT DETERMINATION AND MARKING

Figure 3



NOTES

1. WELD 26MS(1)A-1 UTILIZES CAL BLOCK UT-106.
2. ACCESS TO WELDS 26MS(1)A-1 THRU 26MS(1)A-8 REQUIRES TEMPORARY SCAFFOLDING.
3. ACCESS TO WELD 26MS(1)A-7 REQUIRES REMOVAL OF 26MS(1)A-6PR.

REFERENCES

GENERAL ELECTRIC DRAWINGS:

761 E 992	131 C 8031
132 C 7191	131 C 8038
131 C 8103	131 C 8046
131 C 8601	

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SE, REV 3, N8 NOZZLE

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL (IN)	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26" MS(1)-4	26	STD	1.125	SA 106 GR B	CS	UT-4
8" MS(1)-A	8	160	0.719	SA 106 GR B	CS	UT-3

NO	DATE	REVISION	BY	CHK	APPD
A	11/1/78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS 1 | ASME CODE CLASS 1

DRAWN D TRIMMING | DRAWN K MILA | DATE 1-10-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MAP-8
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE
MAIN STEAM LINE A

DWG NO MS-101-1 | REV A

Figure 4

WASHINGTON PUBLIC POWER SUPPLY SYSTEM	NO: OCS&I-002
QCS & I INSTRUCTION	REV: Rev. 0
	RESP. ORG: OCS&I
APPROVED: [signature] 1/2/79	APPROVED: [signature] 1-2-79
TITLE: INSTRUCTION FOR VISUAL EXAMINATION - PRESERVICE EXAM	

1.0 SCOPE

This instruction defines the requirements for preservice visual examination of nuclear power plant components by QCS&I Personnel or vendor contractor personnel nder QCS&I supervision for conditions such as scratches, wear, cracks, corrosion, erosion, misalignment or improper movement of parts or components, or evidence of leakage.

2.0 APPLICABLE DOCUMENTS, CODES AND STANDARDS

The following documents form a part of this examination instruction to the extent specified herein.

2.1 Codes and Standards

a. American Society of Mechanical Engineers, ASME Boiler and Pressure Vessel Code.

(1) Section XI, Inservice Inspection of Nuclear Power Plant Components, Editions and Addenda through 1977 edition.

(2) Section V, Nondestructive Examination, Editions and Addenda through 1977 edition.

b. ODI No. 902, "Training and Certification Procedure; ISI/NDE Examiners".

c. Topical Report WPPSS-QA-004, Operational Quality Assurance Program.

3.0 DESCRIPTION

The principal objective of the techniques described herein is the location and recording of surface conditions for parts or components requiring visual examinations under the scope of ASME Boiler and Pressure Vessel Code Section XI, Inservice Inspection of Nuclear Power Plant Components, according to the requirements given in ASME Boiler and Pressure Vessel Code Section V, Nondestructive Examination, and this instruction.

4.0 REQUIREMENTS

4.1 Personnel Requirements

All personnel performing the examinations shall be certified to at least Level 1 Visual and records of the certification maintained in accordance with ODT No. 902; "Training and Certification Procedure; ISI/NDE Examiners".

4.2 Direct Visual Examination

Direct visual examination may be made when access is sufficient to place the eye within 24 inches of the surface to be examined and at an angle not less than 30° to the surface to be examined. Mirrors may be used to improve the angle of vision. Lighting of 15 to 50 foot candles at the examination surface (as measured by a mode 703-3A Weston Light Meter or equivalent) is required. Resolution shall be considered adequate, when the combination of lighting, access, and angles of vision can resolve a black line 1/32 of an inch wide on an 18% neutral gray background placed on the surface to be examined.

4.3 Remote Visual Examination

Remote visual examination may be substituted for direct visual examination where access does not permit direct visual examination. Remote visual examination may include visual aids such as telescopes, periscopes, borescopes, fiberoptics or TV cameras and monitoring systems, with or without attachments for permanent recording. Mirrors, movable lights or rotating optics, or any combination thereof, may be employed. Where practical such systems shall have a resolution capability at least equivalent to that obtainable by direct visual observation.

4.4 Replication

Surface replication methods shall be considered acceptable provided the surface resolution is at least equivalent to that obtainable by the visual observation.

4.5 Cleaning

Surfaces which require cleaning or decontamination for valid interpretation of results shall be prepared by an approved process.

5.0 EXAMINATION

5.1 Valve Bodies

The normally accessible internal pressure boundary surfaces shall be examined for signs of distress. Where applicable, the stem, disk, seat, internal pilot valve, rings, stem-to-disk connection and packing shall be visually examined for mechanical damage. In addition, the valve bowl, seat, disk and stem may be examined for evidence of metallurgical damage such as erosion, corrosion, or cracking.

5.2 Pump Casings

The normally accessible internal pressure boundary surfaces shall be examined for signs of distress. Examine the accessible interior surfaces, and where applicable the pump bowl and the pump impeller for evidence of cracking, corrosion, erosion, galling, mechanical damage, or other abnormal conditions.

5.3 Pressure Retaining Bolting

Bolting may be examined either in place under tension, when the connection is disassembled, or when the bolting is removed. The parts to be examined shall include (where applicable and accessible) bolts, studs, nuts, washers, bushings, threads in base material and flange ligaments between threaded stud holes. The areas of threads, shanks, and heads shall be examined. Discontinuities such as laps, galling, corrosion, seams, or cracks which would be detrimental to the intended service should be noted.

5.4 Support Components

Included are the support components that extend from the piping, valve, and pump attachment to and including the supporting structure. The components shall be examined for evidence of movement, misalignment, breakage, and other deleterious conditions. The support settings of constant and variable springtype hangers, snubbers, and shock absorbers shall be recorded.

5.5 Closure Head and Vessel Cladding

When required, clad surfaces shall be examined for evidence of metallurgical or mechanical damage such as cracking, corrosion, or gouges.

5.6 Vessel Interior Surfaces, Attachments, and Core Support Structures

The areas shall include the space above and below the reactor core made accessible for examination by the removal of components during normal refueling outages. Also included are attachments and core-supports, guide rod brackets, core spray brackets, and jet pump riser brace arm. The components shall be examined for evidence of mechanical damage such as breakage, movement, gouges, cracks, or corrosion. Any extraneous parts shall also be examined and the results noted.

5.7 Visual Examination For Leakage

Visual Examination for Evidence of Leakage During Pressure Tests or Hydrostatic Tests will be Performed in Accordance with Requirements of IWA-5000, IWB-1220, IWC-2510 and IWD-2000 of Section XI as Follows:

5.7.1 Vessel Penetrations

Each vessel penetration designated for examination shall be examined for evidence of leakage.

5.7.2 Exempt Components

The examination of exempt components, which may be conducted without the removal of insulation shall be performed by inspecting (1) the exposed surfaces of and joints in component insulation to locate evidence of leakage and (2) the floor areas (or equipment) directly underneath components for evidence of accumulated leakage that may drip from components.

5.7.3 Examination of Insulated Joints - Vertical

Examination of insulated joints along vertical surfaces of vessels, walls, and piping need not be performed, provided the lowest terminal ends of vertical surfaces are examined, and the insulation design is such that any leakages originating along the vertical surfaces can accumulate and leak from the insulation joint at the lowest elevation.

5.7.4 Examination of Insulated Joints - Horizontal

Examination of insulation joints along horizontal surfaces of components shall be conducted at each insulation joint except where accessibility is limited by structural members or other components. In the latter cases, either the insulation shall be removed to permit component examination, or provisions shall be included to channel potential leakages to areas accessible for examination.

5.7.5 Leakages

All leakages observed during pressure or hydrostatic tests shall be noted. At locations where leakages are normally expected and collected (E.G., valve stems, pump seals), the examination shall verify that the leakage collection system is operative.

5.7.6 Sources of Leakages

The source of leakages (other than normal controlled leakages) shall be located and the area shall be examined to the extent necessary to establish the requirements for corrective action.

5.8 Data Recording

All indications or abnormal surface conditions visible on welds, base metal, and support or restraint members, shall be reported and detailed according to Paragraph 5.9. Scratches, gouges, wear, corrosion or erosion on surfaces, misalignment or movement of parts, or evidence of leakage shall be of primary concern. When settings or gauge readings are required (such as on hangers), the readings shall be recorded.

5.8.1 Visual Examination Forms

A separate Visual Examination form must be prepared for each type of component examined, (Figures 1, 2, 3 and 4).

5.8.2 Visual Aids

Record on the appropriate examination form the identity of all visual aids or replication methods used. (Use backside of form if necessary).

5.9 Submittals

Examination records shall contain the following information:

a. Nuclear project number
b. Date of Examination
c. Identification and signature of examiner
d. Identification of part examined
e. Examination results
f. Other information as required on examination data form prepared for specific components
g. Instruction number and revision

The recorded data shall be reviewed by an individual certified to at least a Level II in Visual Examinations to determine if additional examination and/or evaluation is required and for further disposition.

5.10 Evaluation of Discontinuities

All parts listed below having indications exceeding the acceptable limits of this instruction shall be recorded.

When visual examinations performed in accordance with this instruction detect evidence of discontinuities, those discontinuities shall be evaluated per the following:

5.10.1 Recordable Indications

(a) Only indications with major dimensions greater than 1/16 in. (1.6mm) shall be considered relevant.

(b) Unless otherwise specified in this Subsection, the following relevant indications are unacceptable:

(1) Any cracks or linear indications;

(2) Rounded indications with dimensions greater than 3/16 in. (4.8mm);

(3) Four or more rounded indications in a line separated by 1/16 in. (1.6mm) or less edge to edge;

(4) 10 or more rounded indications in any 6 sq. in. (3870mm^2) or surface with the major dimension of this area not to exceed 6 in. (152mm) with the area taken in the most unfavorable location relative to the indications being evaluated.

5.10.2 Broken Parts

Broken components or reduced cross sections shall be recorded.

5.10.3 Threaded Parts

Bolts and bolting material which have longitudinal or circumferential indications shall be recorded.

5.10.4 Unequal Wear

Components which have evidence of unequal wear shall be recorded.

5.10.5 Galling/Spalling

Components which have galled or spalled parts shall be reported.

5.10.6 Misalignment/Movement

Components which appear to be misaligned or appear to have moved shall be recorded. Abnormal misalignment or movement of the component part shall be reported.

5.10.7 Erosion-Corrosion

Components exhibiting evidence of either erosion or corrosion shall be recorded. If either erosion or corrosion has readily discernible depth the area shall be evaluated to the extent that its minimum wall thickness is determined and recorded.

5.11 Evaluation of Data

The recorded data shall be reviewed by a certified Level II or Level III examiner to determine: if additional examination or evaluation is required prior to disposition; arrange for the additional activity; witness the additional examinations as required; prepare any additional evaluation.

5.12 Disposition of Recordable Indications

Recordable indications which exceed the acceptance limits specified in this instruction or where no acceptance limit is given shall be dispositioned by processing a "Request for Disposition: RFD Form.

5.12.1 The RFD (Figure 5) is used to report and track deficiencies or suspected deficiencies detected during the preservice examination (instructions for completing an RFD are found in Figure 6).

5.12.2 One RFD shall be issued for each data sheet with indications requiring disposition.

5.12.3 A RFD log (Figure 7) shall be established and maintained by the Manager Central Maintenance group which records and tracks each RFD issued.

5.12.4 Instructions for routing of RFD's are:

(a) The examiner/originator completes the applicable sections of the RFD, assigns it a number from the RFD log, and completes the applicable RFD log entries.

(b) The examiner/originator shall insert a copy of the RFD in the log book and transmit the original to Manager Project Engineering.

(c) The project cognizant engineer determines the disposition, arranges for any necessary corrective actions, completes the RFD form and returns it to the originator.

(d) The examiner/originator completes the log and files the closed out RFD in the log book.

5.13 Review and Control of Data

The recorded data shall be reviewed by a certified Level II or Level III examiner to:

a. Assure that the data sheets are complete, legible, and reproducible.

b. Assure that all recorded indications which exceed the acceptable limits specified in this instruction have been identified and recorded in accordance with paragraph 5.12 of this instruction.

c. Assure that components which are repaired due to reported indications are reexamined to provide a new baseline.

d. Sign-off all data sheets to indicate approval and close out of data sheet.

Following sign-off of the data sheets the reviewer shall file them in the Central Maintenance ISI files. The requirements for final control of the data sheets shall be specified in Section 12 of the Central Maintenance ISI/NDE Program Manual.

DATA SHEET NO._____
REF. DWG. NO. _____

INTERNAL PRESSURE BOUNDARY SURFACE VISUAL EXAMINATION DATA SHEET

WHP-_____ DATE:_____

ITEM EXAMINED:_____ PHOTO ID: ROLL#_____ FRAME#_____

EXAMINER'S NAME:_____ QUALIFICATION LEVEL:_____

FINDING	YES	NO	N/A	Location and Other Information (Additional Comments on Reverse Side)
CRACKS				
VALVE OR PUMP BOWL				
SYMPTOMS OF STRUCTURAL DISTRESS				
EROSION				
SCRATCHES				
PITS				
GOUGES				
GALLING				
BREAKAGE				
WEAR				
CORROSION				
OTHER				

ADDITIONAL COMMENTS AND EVALUATION:

REVIEWED BY:_____ LEVEL:_____

FIGURE 1

DATA SHEET NO. _____
REF. DWG. NO. _____

QCS&I-002
Rev. 0

BOLTING AND [illegible] INTERNALS
VISUAL EXAMINATION DATA SHEET

WNP-_____ DATE: _____

ITEM EXAMINED: _____ PHOTO ID: ROLL# _____ FRAME# _____

EXAMINER'S NAME: _____ QUALIFICATION LEVEL: _____

AUTHORIZED INSPECTOR'S SIGNATURE: _____

FINDING	YES	NO	N/A	Location and Other Information (Additional Comments on Reverse Side)
CRACKS				
THREAD ROOT AREA				
SYMPTOMS OF STRUCTURAL DISTRESS				
SCRATCHES				
PITS				
GOUGES				
WEAR				
GALLING				
BREAKAGE				
MISALIGNMENT				
MOVEMENT				
CORROSION				
OTHER				

ADDITIONAL COMMENTS AND EVALUATION:

REVIEWED BY: _____ LEVEL: _____

FIGURE 2

DATA SHEET NO._____
REF. DWG. NO. _____

HYDROTEST - LEAKAGE
VISUAL EXAMINATION DATA SHEET

WNP-_____ DATE:_____

ITEM EXAMINED:_____ PHOTO ID: ROLL#_____ FRAME#_____

EXAMINER'S NAME:_____ QUALIFICATION LEVEL:_____

AUTHORIZED INSPECTOR'S SIGNATURE:_____

TEMPERATURE:_____ PRESSURE:_____

AREA EXAMINED	LEAKAGE YES	LEAKAGE NO	COMMENTS

ADDITIONAL COMMENTS AND EVALUATION:

REVIEWED BY: LEVEL:

FIGURE 3

REF. DWG. NO. _____

QCS&I-002
Rev. 0

SUPPORT MEMBER
VISUAL EXAMINATION DATA SHEET

WNP-_____ DATE: _____

ITEM EXAMINED: _____ PHOTO ID: ROLL# _____ FRAME# _____

EXAMINER'S NAME: _____ QUALIFICATION LEVEL: _____

AUTHORIZED INSPECTOR'S SIGNATURE: _____

HANGER OR SUPPORT MEMBER IDENTIFICATION	INDICATION		SETTING (if applicable)		COMMENTS - (System - Temp., Pressure, Wet, Dry)
	YES	NO	REQUIRED	ACTUAL	

ADDITIONAL COMMENTS AND EVALUATION:

REVIEWED BY: LEVEL:

FIGURE 4

1. R.F.D._____

REQUEST FOR DISPOSITION

2. PROJECT_____ 3. DATE_____

4. ORIGINATOR_____ 5. TYPE OF EXAMINATION_____

6. INSTRUCTION NO._____ REV. NO._____

7. ITEM EXAMINED_____

8. ITEM I.D. NO._____

9. LOCATION_____

10. DESCRIPTION OF REPORTABLE CONDITION

_____

DISPOSITION

11. ACCEPTABLE AS IS /_/

12. UNACCEPTABLE /_/

13. UNACCEPTABLE CONDITION RECORDED ON:

RFI #_____

OTHER_____

14. CORRECTIVE ACTION TAKEN

15. REINSPECTION REQUIRED YES /_/ NO /_/

16. COMPLETED BY_____ DATE_____

FIGURE 5

INSTRUCTIONS FOR COMPLETING RFD FORM

ITEMS 1 - 10: To be completed by Examiner/Originator.

1. Enter RFD number from log book.
2. WNP Project Number.
3. Date of Report.
4. Name of Examiner/Originator.
5. Type of Examination used to discover reportable conditions.
6. Number of instruction governing examination and revision number.
7. Description of item where reportable condition exists.
8. Part number and serial number of item where reportable condition exists.
9. Describe location of item including building area, elevation, installed, not installed, etc., as applicable.
10. Enter complete description of reportable condition. Include any pertinent facts which may help in the disposition.

ITEMS 11 - 17: To be completed by Dispositioner.

11 & 12. Check either item as applicable.

13. Enter Request for Information (RFI) number or document type and number on which unacceptable condition was recorded for further disposition.
14. Brief description of corrective action taken.
15. Check appropriate box depending on corrective action taken.
16. Signature of Project Engineer and Date.

FIGURE 6

R.F.D. LOG

R.F.D. NO.	ORIGINATOR	DATE	SENT TO	RESOLUTION	DATE RESOLVED	REINSPECTION DATE	REMARKS

FIGURE 7

Date 11/14/80
Revision 1

11.0--ULTRASONIC CALIBRATION STANDARDS

This section of the WNP-2 PSI Program Plan provides a description of the design and identifies the applicability of each ultrasonic calibration block which will be used to complete the ultrasonic examinations identified in this Program Plan. This section is divided into two subsections. Subsection 11.1 presents the UT calibration blocks which will be used in completing examinations of the RPV, including top and bottom heads, nozzle-to-shell welds and inner radii, and nozzle safe end weld examinations. Subsection 11.2 presents those calibration blocks which will be used in completing examinations of the piping systems. Note that the RPV nozzle safe-end welds are identified as piping welds on the Weld and Component Identification Diagrams corresponding to the respective piping system. However, those welds will be examined, with the exception of certain of the smaller vessel nozzles, using mechanized equipment during the vessel mechanized examinations. The RPV safe-end UT blocks were designed and fabricated by the NSSS supplier, as were the vessel blocks, with the exception of the calibration block for the feedwater nozzle inner radius. This block is an actual BWR feedwater nozzle with attached shell plate material. This mock-up, including the notches which simulate flaws, will be designed and fabricated by the Supply System. The balance of the piping weld blocks were designed and fabricated by the Supply System as detailed in 11.2.

11.1 VESSEL STANDARDS

The design drawings on the following pages illustrate the ultrasonic calibration blocks which will be used to perform ultrasonic examinations of the RPV, including top and bottom heads, the nozzle-to-shell welds and inner radii, and the nozzle safe end welds. Table 11-1 lists those UT blocks, including the block identification number which will be used exclusively whenever referencing the calibration block on data sheets or other records, and the corresponding design drawing number. The block identification number is the same number referenced from the Program Plan and Schedule Tables and the Weld and Component Identification Diagrams found in Section 8.0, "WELD ID DIAGRAMS".

TABLE 11-1

RPV ULTRASONIC CALIBRATION BLOCKS

Sheet 1 of 2
Date 7/27/79
Revision 1

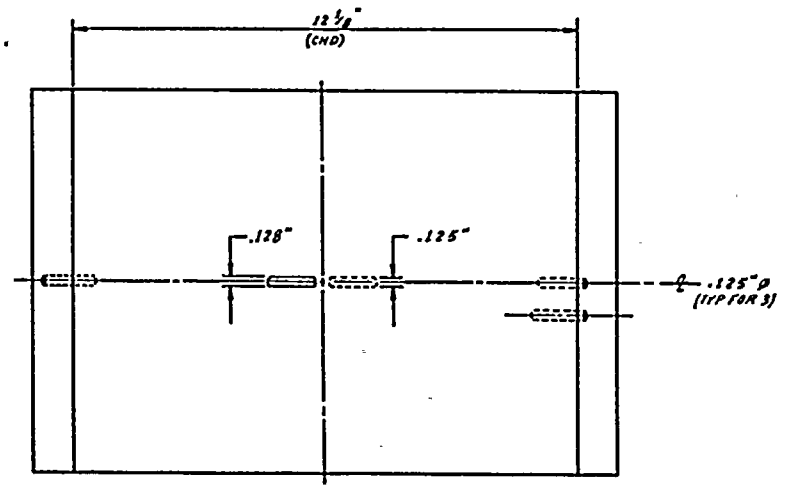
BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-101	UTCB-101	NOZZLE TO SAFE-END, N1	CS-SS	22"	1 29/32"	SA-508, SA-336
UT-102	UTCB-102	NOZZLE TO SAFE-END, N4, N5, N6, N16	CS-INCO	12"	1 1/8" 1 5/16"	SA-508, SB-166
UT-104	UTCB-104	NOZZLE TO SAFE-END, N3	CS-CS	24"	1 5/8"	SA-508, Gr. B
UT-105	UTCB-105	SAFE-END TO STUB, N4	INCO-INCO	12"	15/16"	SB-166-70
UT-106	UTCB-106	SAFE-END OR STUB TO SAFE-END EXTENSION, N4, N5, N6, N16	INCO-CS	10/12"	13/16"	SB-166, SA-508
UT-107	UTCB-107	NOZZLE TO FLANGE, N7, N18	CS-CS	6"	1 3/4"	SA-508
UT-108	UTCB-108	NOZZLE TO FLANGE, N8	CS-CS	4"	1 1/4"	SA-508
UT-109	UTCB-109	NOZZLE TO SAFE-END, N9	CS-SS	4"	3/4"	SA-508, SA-336
UT-110	UTCB-110	NOZZLE TO SAFE-END, N10	CS-CS	5"	3/4"	SA-508
UT-111	UTCB-111	NOZZLE TO SAFE-END, N2	CS-SS	12"	1 1/4"	SA-508, SA-182, F 316L
UT-115	UTCB-203	TOP HEAD DOLLAR PLATES	CS	N/A	3 5/8"	SA-533, Gr. B
UT-116	UTCB-204	TOP HEAD RADIAL PLATES	CS	N/A	5 1/8"	SA-533, Gr. B
UT-117	UTCB-205	BOTTOM HEAD DOLLAR PLATES	CS	N/A	8"	SA-533, Gr. B
UT-118	UTCB-206	BOTTOM HEAD RADIAL PLATES	CS	N/A	6 3/4"	SA-533, Gr. B

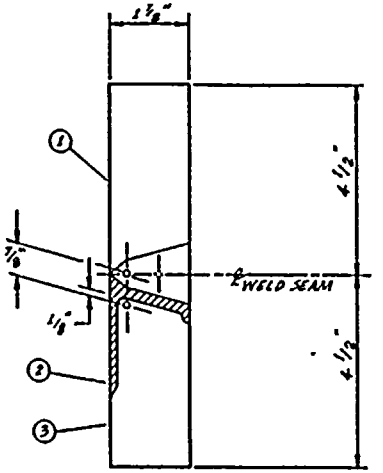
TABLE 11-1

Date 11/14/80
Revision 2

RPV ULTRASONIC CALIBRATION BLOCKS

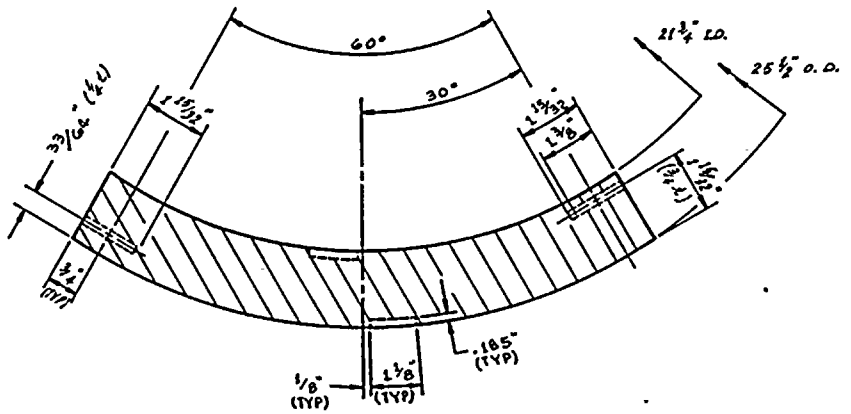
BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-119	UTCB-207	SHELL COURSE #1	CS	N/A	9 3/4"	SA-533, Gr. B
UT-120	UTCB-208	SHELL COURSE #2 & #3	CS	N/A	6 9/16"	SA-533, Gr. B
UT-121	UTCB-209	SHELL COURSE #4	CS	N/A	7 1/4"	SA-533, Gr. B
UT-122	UTCB-212	N-4 NOZZLE INNER RADIUS & BORE	CS	N/A	LATER	SA-533, Gr. B
UT-130	UTCB-210	RPV STUDS	CS	6"	N/A	SA-540, Gr. 23





MATERIAL

1. SA 336 CL F8 SS
2. INCONEL 82
3. SA 508 CL II CS



REFERENCES:

- CBI NUCLEAR CO. VPF # 3199-519 REV 1
- ISI DRAWING RPV-105 REV 0

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER T HOVLE

DRAWN K. McANDREW

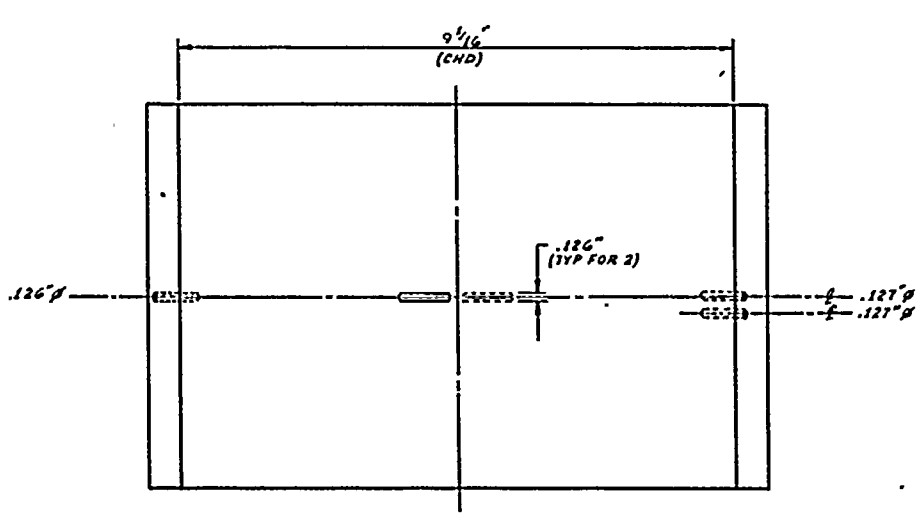
DATE 5-30-79

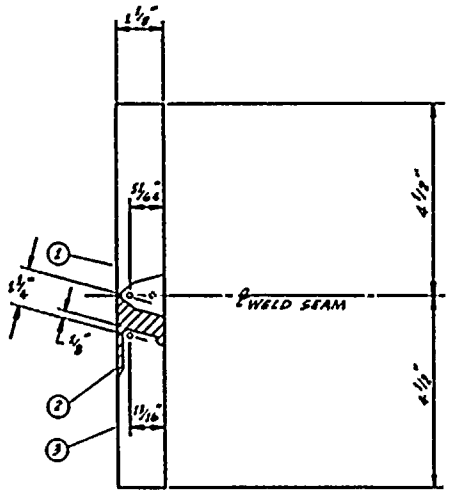
WNP-2

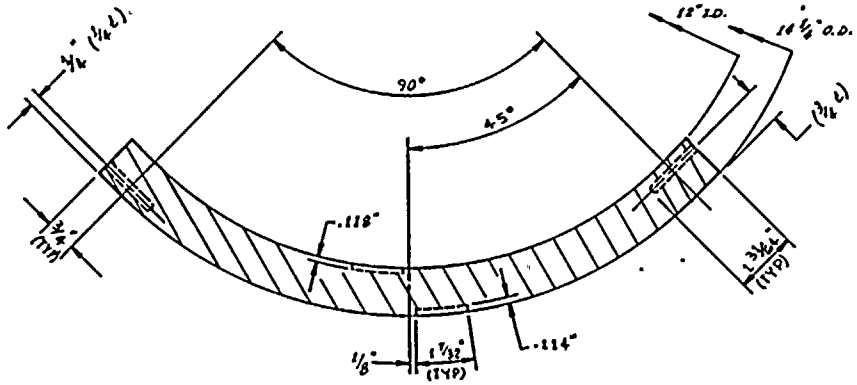
NOZZLE TO SAFE-END, N1
UT CALIBRATION BLOCK, UT-101

DWG NO UTCB-101 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	7-31-79	ISSUED FOR USE, AS BUILT	[illegible]	[illegible]	[illegible]







MATERIAL

1. INCONEL SB 166
2. INCONEL 82
3. SA 508 CL II CS

REFERENCES

- CBI NUCLEAR CO. VPF # 3613-649 REV 0
- ISI DRAWINGS
  - RPV-108 REV 0
  - RPV-109 REV 0
  - RPV-110 REV 0

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER T HOYLE
DRAWN K. McANDREW
DATE 5-31-79

WNP-2
NOZZLE TO SAFE-END, N4, N5, N6 & N16 UT CALIBRATION BLOCK, UT-102

DWG NO UTCB-102 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
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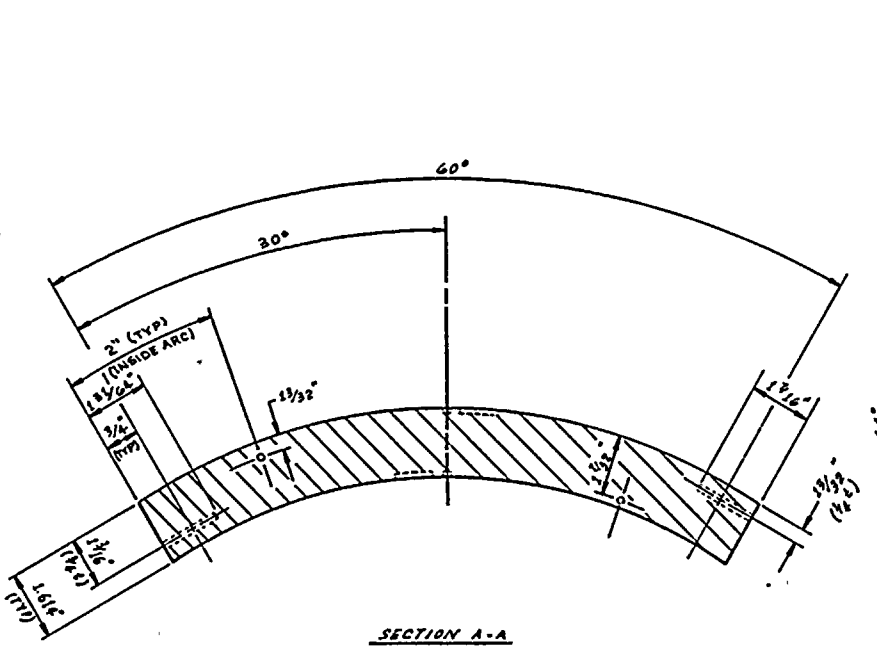
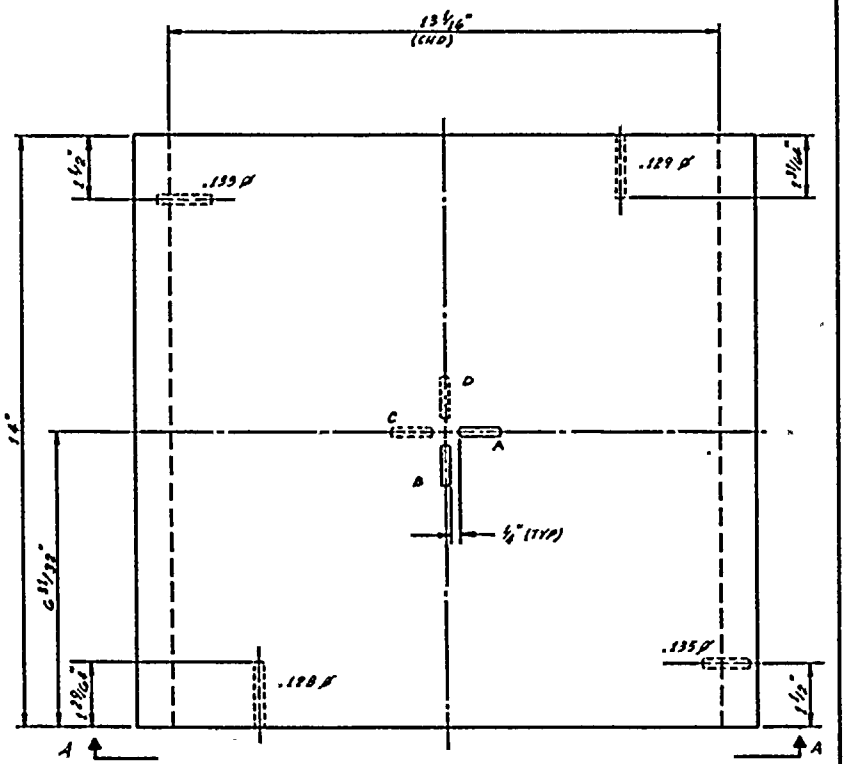


SECTION A-A



NOTCH	LENGTH	WIDTH	DEPTH
A	61/64"	.133"	.134"
B	59/64"	.134"	.140"
C	59/64"	.127"	.142"
D	16/16"	.125"	.144"

MATERIAL

SA508 CL I

REFERENCES:

- CBI NUCLEAR CO. VPF M 3139-580 REV 0
- ISI DRAWING RPV-10T REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11/79	ISSUED FOR USE, AS BUILT	KMA		

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ENGINEER T HOYLE

DRAWN K. McANDREW

DATE 6-11-79

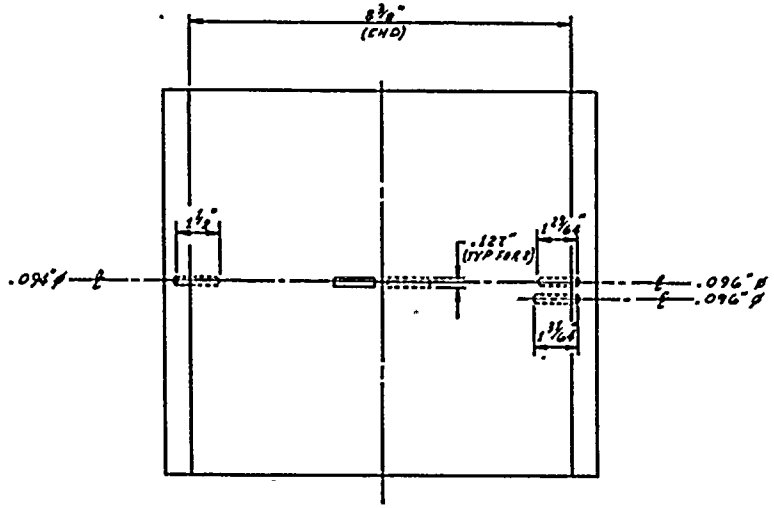
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

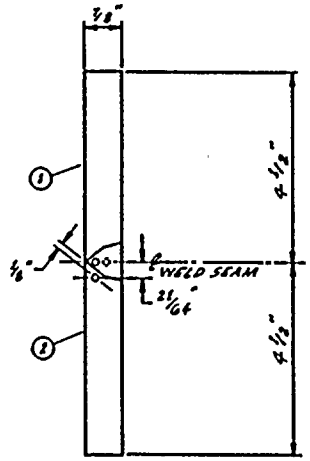
RICHLAND, WASHINGTON 99352

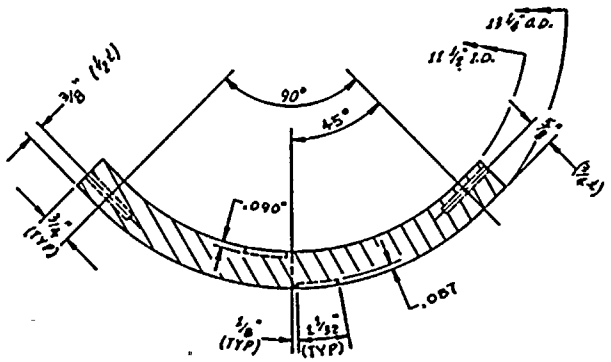
WNP- 2

NOZZLE TO SAFE-END N3 UT CALIBRATION BLOCK, UT-104

DWG NO UTCB-104 REV 0







MATERIAL

1. INCONEL SB 166
2. INCONEL SB 166

REFERENCES:

- CBI NUCLEAR CO. VPF # 3133-519 REV 1
- ISI DRAWING RPV-108 REV 0

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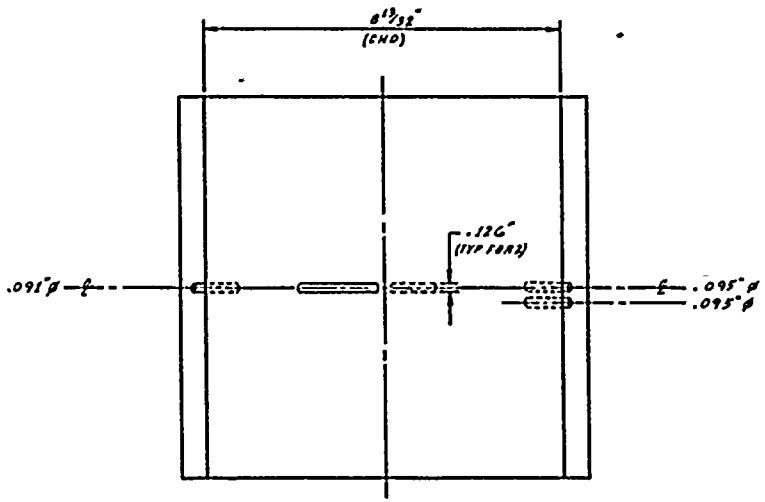
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP- 2

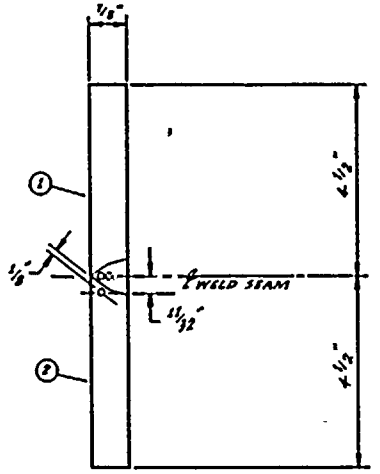
ENGINEER T HOVLE
DRAWN K. McANDREW
DATE 5-30-79

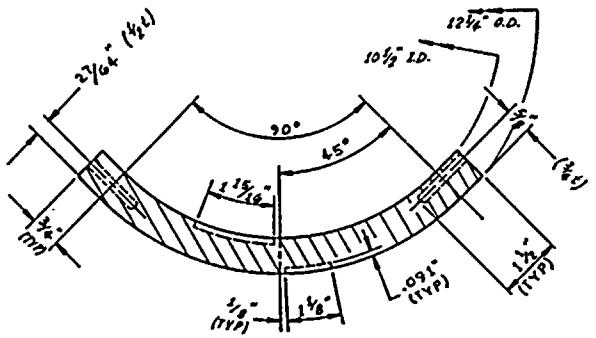
SAFE-END TO SAFE-END STUB, N4 UT CALIBRATION BLOCK, UT-105

DWG NO UTCB-105 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	7/31/79	ISSUED FOR USE			







MATERIAL

1. SA 508 CL 1 CS
2. INCONEL SB 166

REFERENCES:

- CBI NUCLEAR CO.
  VPF # 3613-650 REV 0
- ISI DRAWINGS
  RPV-108 REV 0
  RPV-109 REV 0
  RPV-110 REV 0

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

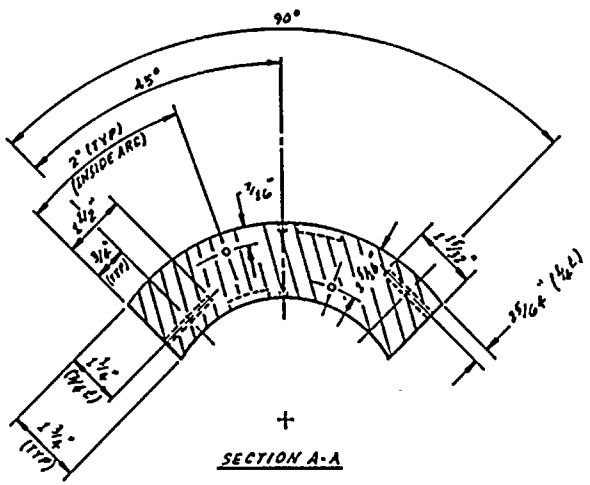
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2

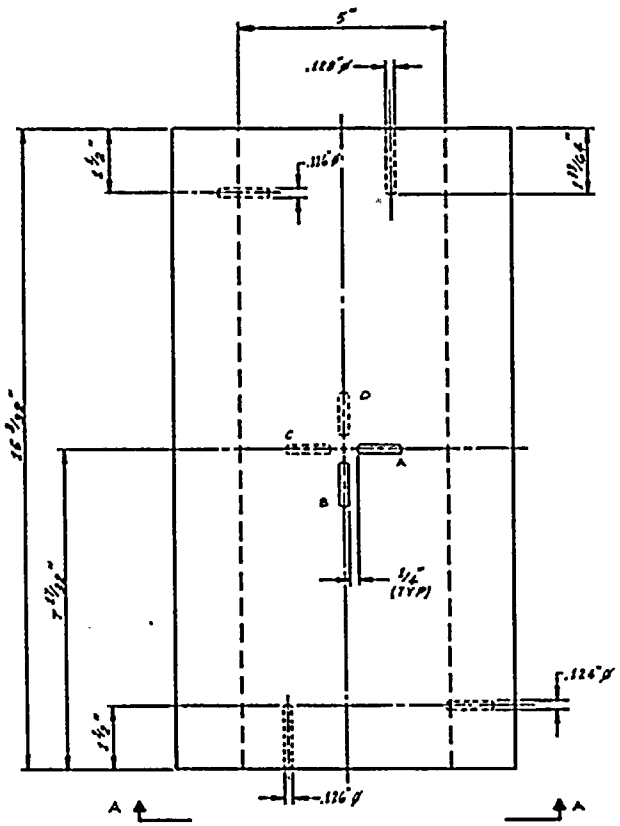
SAFE-END TO SAFE-END EXTENSION, N4, N5, N6 & N16 UT CALIBRATION BLOCK, UT-106

ENGINEER T HOYLE
DRAWN K McANDREW
DATE 8-31-79
DWG NO UTCB-106
REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	7-31-79	ISSUED FOR USE, AS BUILT			



SECTION A-A



NOTCH	LENGTH	WIDTH	DEPTH
A	1 1/32"	.125"	.158"
B	1 1/32"	.125"	.156"
C	1 1/32"	.127"	.154"
D	1"	.127"	.160"

MATERIAL

SA 508 CL II

REFERENCES:

- CBI NUCLEAR CO. VPF # 3139-521 REV 0
- ISI DRAWING RPV-111 REV 0

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER T HOYLE

DRAWN K McANDREW

DATE 6-6-79

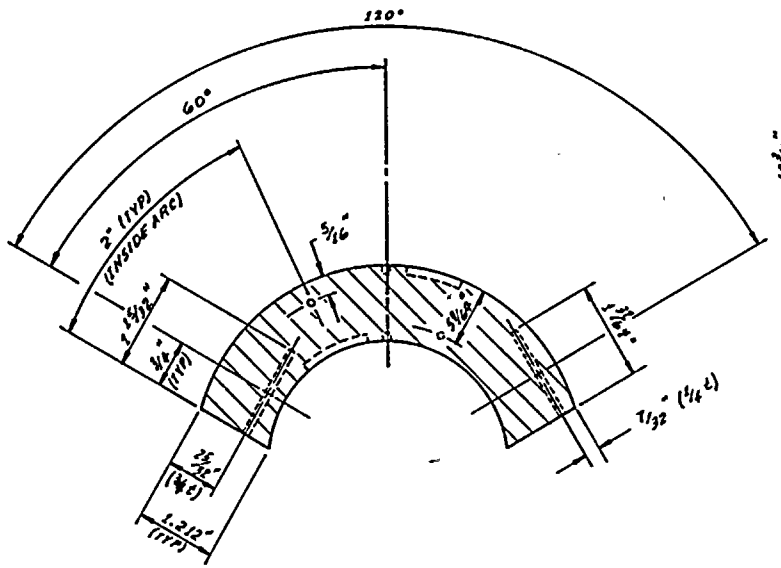
WNP-2

NOZZLE TO FLANGE, N7, N18 UT CALIBRATION BLOCK, UT-107

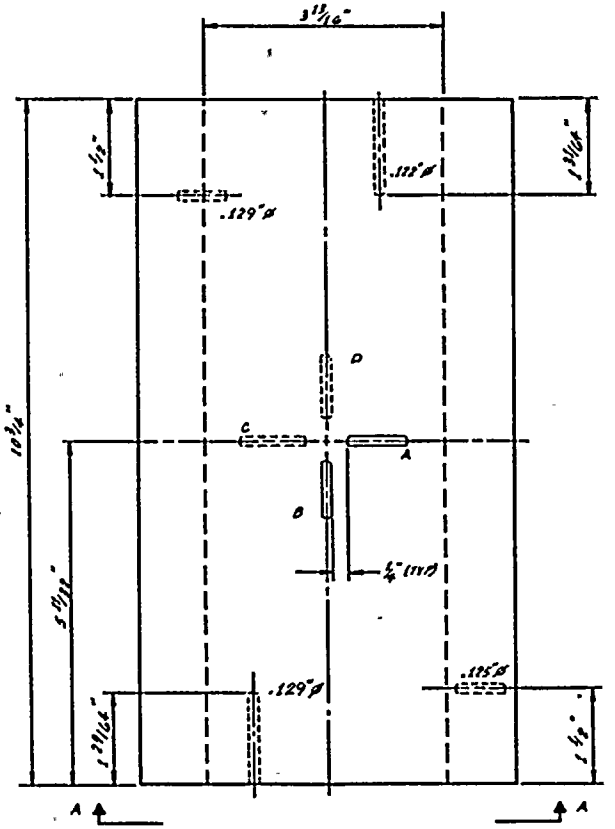
DWG NO UTCB-107

REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	5-31-79	ISSUED FOR USE: AS BUILT	KMA	[illegible]	CJP



SECTION A-A



NOTCH	LENGTH	WIDTH	DEPTH
A	29/32"	.127"	.112"
B	61/64"	.126"	.114"
C	1 1/32"	.125"	.103"
D	1 1/32"	.125"	.113"

MATERIAL

SA 508 CL II

REFERENCES

- CBI NUCLEAR CO VPF # 3133-320 REV 0
- ISI DRAWING RPV-112 REV 0

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2

NOZZLE TO FLANGE, N8
UT CALIBRATION BLOCK, UT-108

ENGINEER T. HOVLE

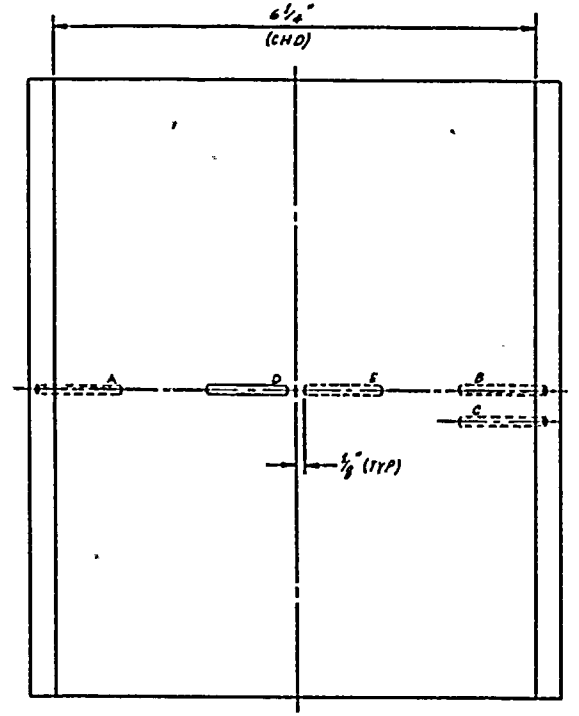
DRAWN K. Mc Andrew

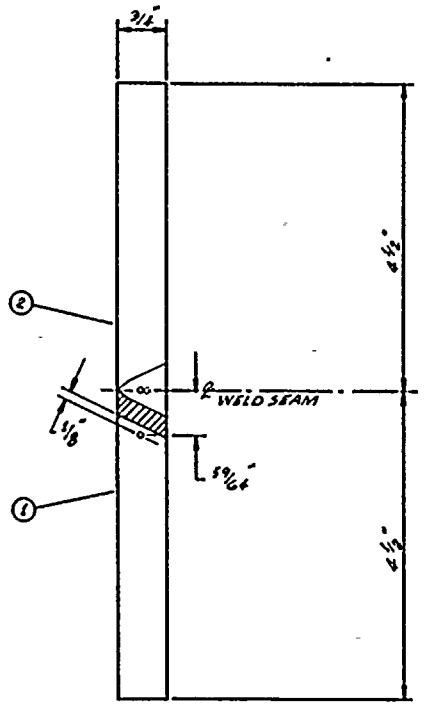
DATE 6-13-79

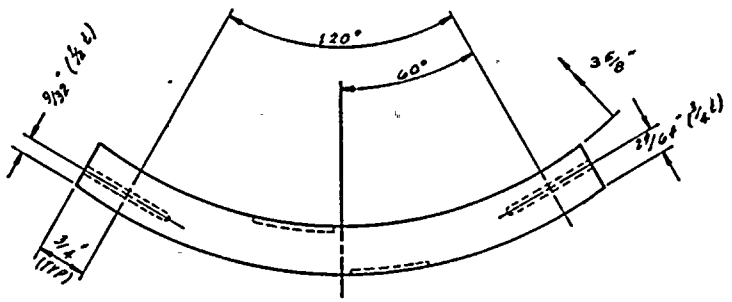
DWG NO UTCB-108

REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	7.11.79	ISSUED FOR USE, AS BUILT			







HOLE	DIAMETER	DEPTH
A	.095"	1 3/16"
B	.095"	1 9/16"
C	.095"	1 11/32"

NOTCH	LENGTH	WIDTH	DEPTH
D	1 3/32"	.126"	.078"
E	1 3/16"	.126"	.076"

MATERIAL

1. SA 508 CL II
2. SA 336 CL F8

REFERENCES

CBI NUCLEAR CO.
VPF #3613-652 REV 0

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

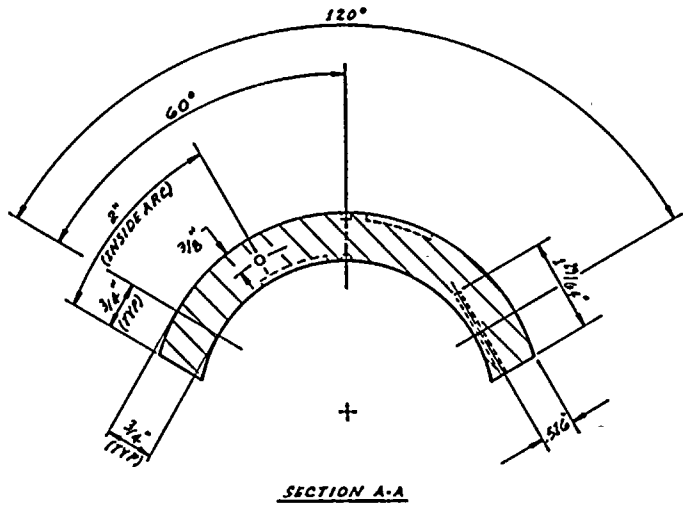
WNP-2

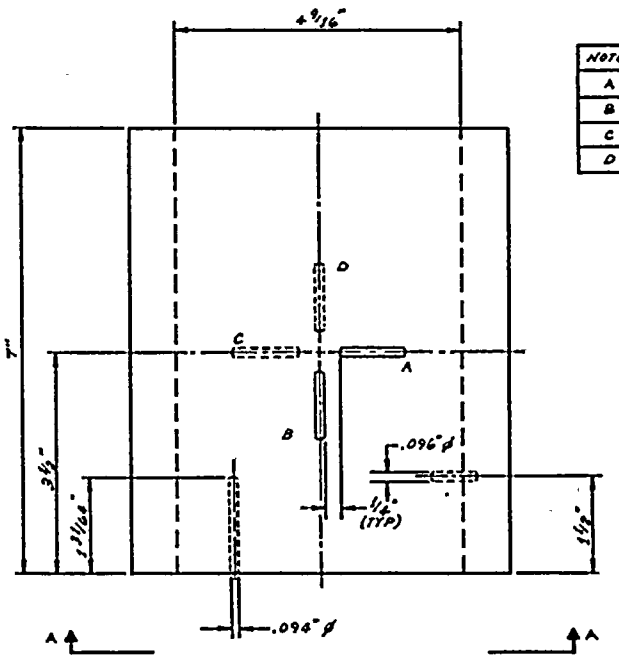
ENGINEER T HOYLE
DRAWN K. McANDREW
DATE 7-12-79

JET PUMP INSTRUMENTATION, N9
UT CALIBRATION BLOCK, UT-109

DWG NO UTCB-109 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	9-13-79	ISSUED FOR USE, AS BUILT			





NOTCH	LENGTH	WIDTH	DEPTH
A	1 1/16"	.126"	.076"
B	1 1/16"	.125"	.077"
C	1 1/16"	.126"	.077"
D	1 1/32"	.126"	.077"

MATERIAL

SA508 CL I

REFERENCES:

- CBI NUCLEAR CO. VPF # 3139.521 REV 0
- ISI DRAWING RPV-113 REV 0

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP- 2

ENGINEER T HOYLE

DRAWN K McANDREW

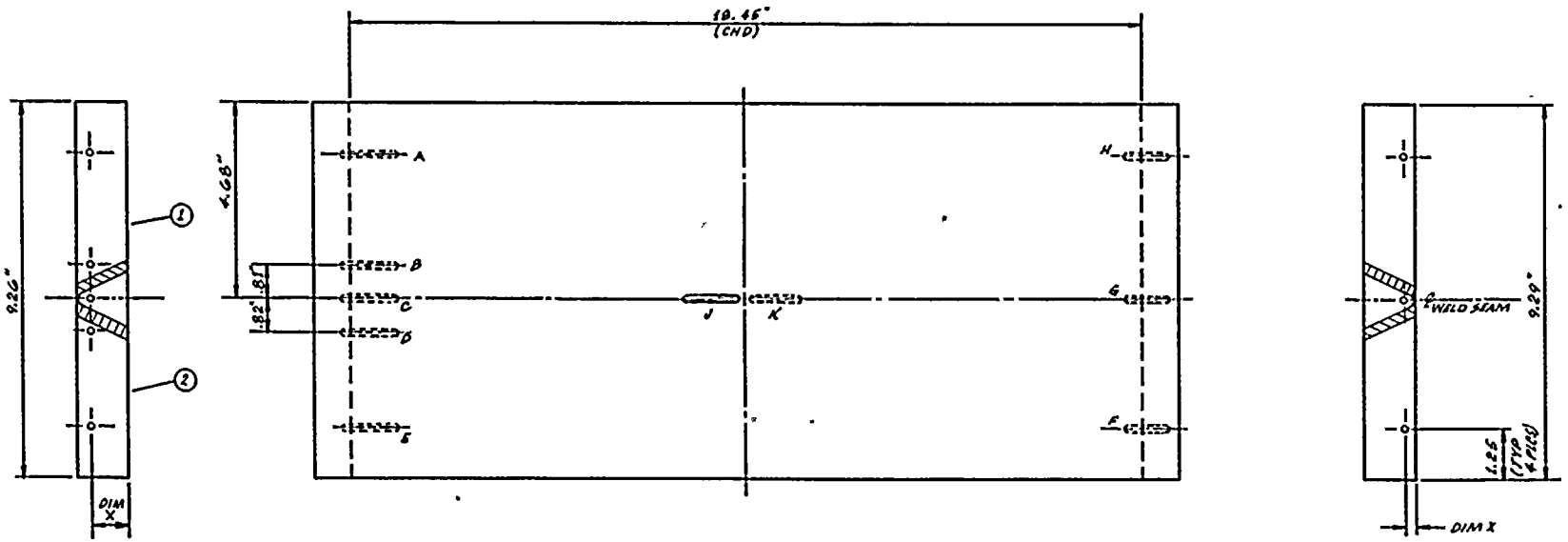
DATE 6-7-79

NOZZLE TO SAFE-END, N10
UT CALIBRATION BLOCK, UT-110

DWG NO UTCB-110

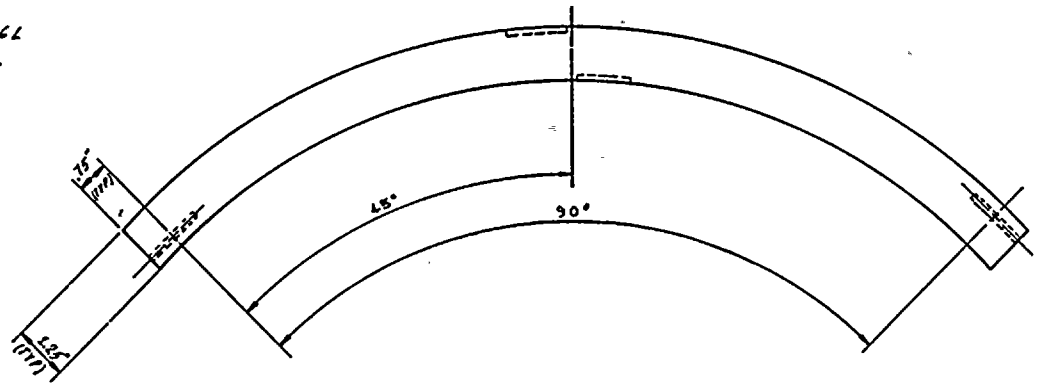
REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	3-11-79	ISSUED FOR USE, AS BUILT	K.M.A	[illegible]	[illegible]



MATERIAL

1. SA 182 F 316L
2. SA 508 CL 2



NOTCH	LENGTH	WIDTH	DEPTH
J	1.234"	.133"	.116"-.126"
K	1.171"	.126"	.104"-.108"

HOLE	DIAMETER	DEPTH	DIM X
A	.125"	1.51"	.90"
B	.126"	1.53"	.90"
C	.125"	1.46"	.91"
D	.126"	1.50"	.88"
E	.126"	1.50"	.89"
F	.125"	1.50"	.28"
G	.125"	1.51"	.29"
H	.126"	1.54"	.27"

REFERENCES:

APSE/GE ORDER # F-20166A
SHOP SHEET 1 REV 3

NO	DATE	REVISION	BY	CHKD	APPVD
0	9.11.79	ISSUED FOR USE, AS BUILT			

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

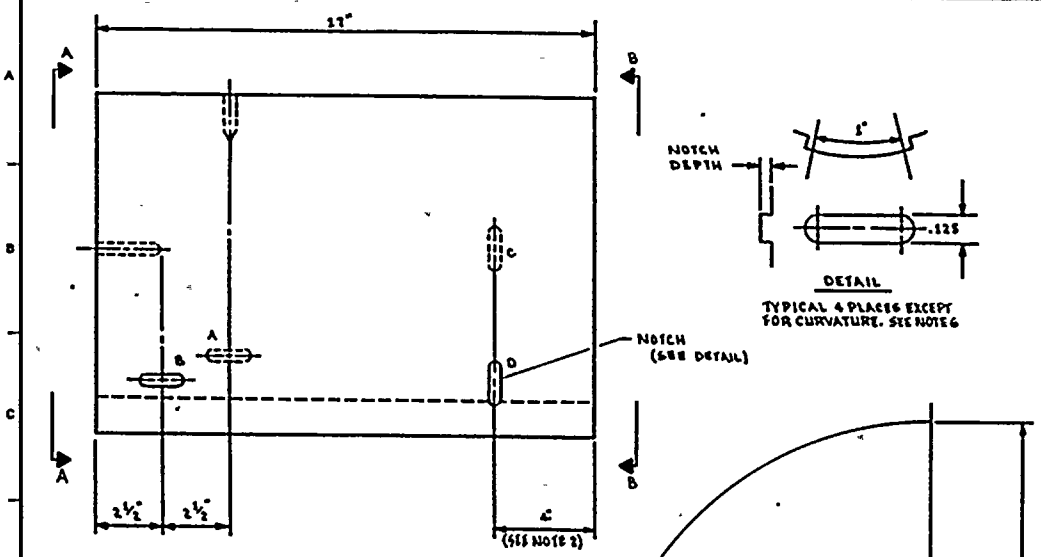
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER T HOYLE
DRAWN K McANDREW
DATE 6-27-79

WNP-2

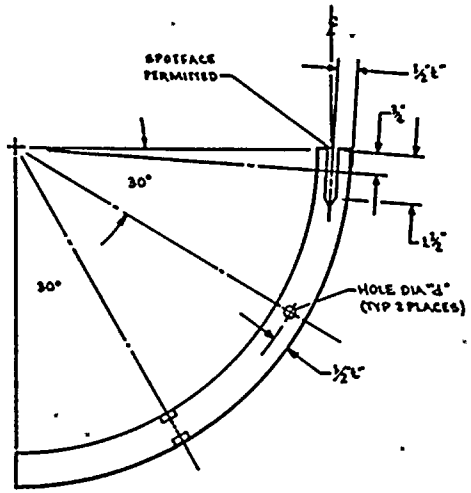
NOZZLE TO SAFE-END N2
UT CALIBRATION BLOCK, UT-111

DWG NO UTCB-111 REV 0

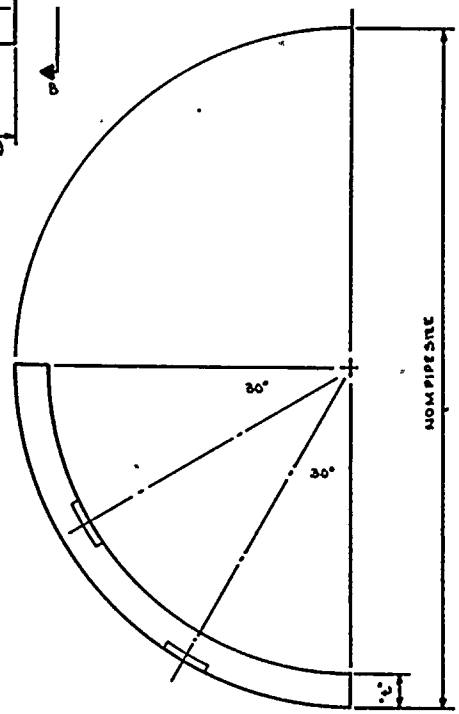


DETAIL

TYPICAL 4 PLACES EXCEPT FOR CURVATURE. SEE NOTE 6



SECTION A-A



SECTION B-B

CAL BLOCK NO	NOM PIPE SIZE	NOM WALL THK "t"	MATERIAL SPECIFICATION	* NOTCH DEPTH	HOLE DIA "d"	HEAT NO
UT-1	30	1.250	SA 155 KCF-70	.123 .122 .116 .110	⅛"	W10234
UT-2	28	1.420	SA 155 KCF-70	.127 .125 .110 .111	⅛"	14368
UT-3	26	1.125	SA 155 KCF-70	.109 .113 .108 .109	⅛"	M01466
UT-4	SEE UTCB-224					
UT-5	24	1.812	SA 106 GRB	.152 .151 .155 .154	⅛"	L2808
UT-6	24	1.218	SA 106 GRB	.113 .130 .110 .115	⅛"	L85790
UT-7	24	1.140	SA 358 GR 304	.109 .109 .110 .109	⅛"	19068
UT-8	NOT USED					
UT-9	20	1.031	SA 358 GR 304	.105 .106 .109 .104	⅛"	E5890
UT-10	20	1.031	SA 106 GRB	.105 .099 .099 .106	⅛"	L86486
UT-11	18	1.375	SA 106 GRB	.126 .120 .116 .115	⅛"	N10166
UT-12	18	0.938	SA 106 GRB	.093 .095 .092 .092	3/32"	L00193
UT-13	16	0.758	SA 358 GR 304	.075 .075 .077 .078	3/32"	97060
UT-33	24	2.343	SA 106 GRB	.186 .186 .193 .182	3/16"	443549

NOTCH DEPTH	
A	C
B	D

* KEY

NOTES:

1. BLOCKS STAMPED WITH ⅛" HIGH STEEL STAMP ON ENDS WITH NOM PIPE SIZE, SCH OR WALL THK, MATL SPEC, HEAT NO & CAL BLOCK NO.
2. DIMENSION 2½" FOR UT-1.
3. DELETED
4. DELETED
5. ALL DIMENSIONS ARE IN INCHES.
6. NOTCH BOTTOM CURVATURE CONFORMS TO PIPE WALL CURVATURE.

DANIEL W. PORTER STATE OF WASHINGTON PROFESSIONAL ENGINEER

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

NO	DATE	REVISION	BY	CHKD	APPVD
4	11-11-77	AS BUILT, UT-2, 7, 9, 19 & 23	K.M.L		
3	9-26-77	AS BUILT, UT-1, 3, 5, 6, 10, 11 & 12	K.M.L		
2	2-22-76	CORRECTED 2 DIMENSIONS, DELETED UT-4	K.M.L		
1	1-2-75	TABLE REVISED, HOLE DEPTH CHANGED	K.M.L		
0	7-31-73	ISSUED FOR CONSTRUCTION	K.M.L		

ENGINEER N.C. HALLAS

DRAWN K. McANDREW

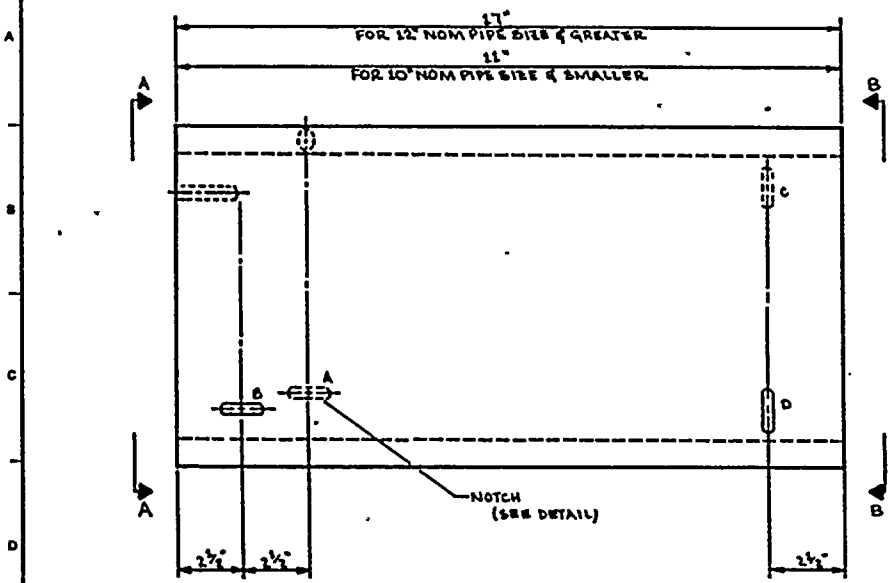
DATE 7-20-73

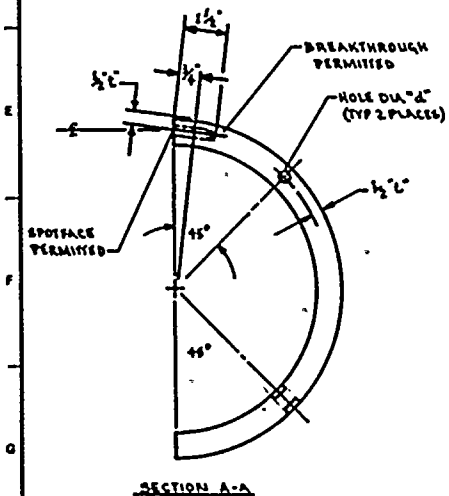
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP 2

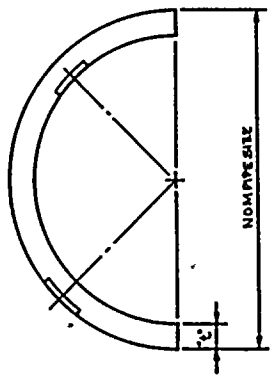
UT CALIBRATION BLOCKS

DWG NO UTCB-220 REV 4





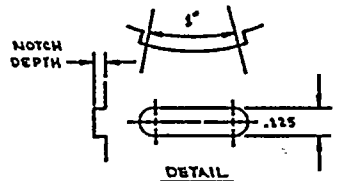
SECTION A-A



SECTION B-B

NOTCH DEPTH	
A	C
B	D

* KEY



DETAIL

TYPICAL 4 PLACES EXCEPT FOR CURVATURE. SEE NOTE 6

CAL BLOCK NO.	NOM PIPE SIZE	NOM WALL THK "t"	MATERIAL SPECIFICATION	*NOTCH DEPTH	HOLE DIA "d"	HEAT NO.
UT-14	14	.750	SA 106 GR B	.075 .076 .075 .076	3/32"	N10630
UT-15	12	1.000	SA 106 GR B	.091 .098 .097 .097	3/32"	L45845
UT-16	12	.844	SA 106 GR B	.081 .088 .082 .083	3/32"	64975
UT-17	12	.688	SA 106 GR B	.073 .067 .069 .070	3/32"	105057
UT-18	NOT USED					
UT-19	12	.688	SA 358 GR 304	.066 .069 .070 .071	3/32"	2PT134
UT-20	NOT USED					
UT-21	10	.719	SA 106 GR B	.071 .072 .071 .075	3/32"	152177
UT-22	10	.594	SA 106 GR B	.058 .058 .057 .057	3/32"	N93495
UT-23	10	.844	SA 106 GR B	.081 .081 .081 .081	3/32"	N38495
UT-24	8	.906	SA 106 GR B	.090 .092 .079 .086	3/32"	N54295
UT-25	8	.594	SA 106 GR B	.060 .061 .060 .060	3/32"	45037
UT-26	8	.500	SA 376 TP 304	.047 .054 .053 .051	3/32"	M1386
UT-27	6	.562	SA 106 GR B	.054 .061 .056 .058	3/32"	N10088
UT-28	6	.432	SA 106 GR B	.046 .045 .042 .044	3/32"	LB4413
UT-29	4	.337	SA 312 TP 304	.036 .037 .032 .032	3/32"	F50309
UT-30	4	.337	SA 106 GR B	.030 .056 .035 .053	3/32"	N94874
UT-31	4	.237	SA 376 TP 304	.027 .024 .020 .026	3/32"	Q1480
UT-32	5	.500	SA 106 GR B	.056 .055 .060 .053	3/32"	L44776

NOTES:

1. BLOCKS STAMPED WITH ⅛" HIGH STEEL STAMP ON ENDS WITH NOM PIPE SIZE, SCH OR WALL THK, MATL SPEC, HEAT NO & CAL BLOCK NO.
2. DELETED
3. DELETED
4. DELETED
5. ALL DIMENSIONS ARE IN INCHES.
6. NOTCH BOTTOM CURVATURE CONFORMS TO PIPE WALL CURVATURE.

DANIEL W. PORTER STATE OF WASHINGTON 9286 REGISTERED PROFESSIONAL ENGINEER

Daniel W. Porter

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

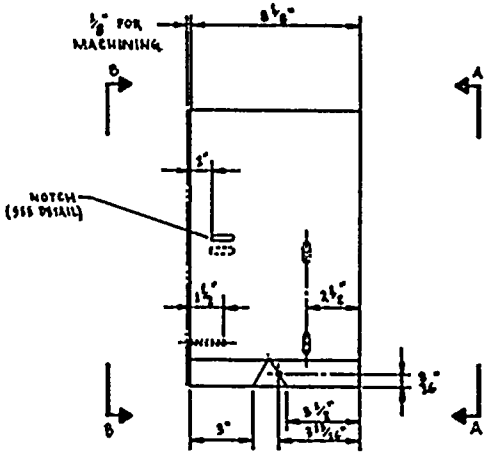
WNP 2

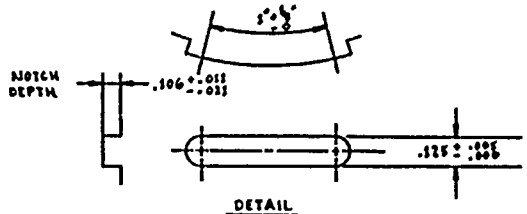
UT CALIBRATION BLOCKS

NO	DATE	REVISION	BY	CHKD	APPVD
4	7-27-79	AS BUILT, UT-32	K.M.A	[illegible]	
3	3-26-79	AS BUILT, UT-16 thru 31	K.M.A	[illegible]	
2	2-2-79	CORRECTED 2 DIMENSION FOR UT-31.	K.M.A	[illegible]	
1	1-2-79	TABLE REVISED, HOLE DEPTH CHANGED	K.M.A	[illegible]	
0	7-13-78	ISSUED FOR CONSTRUCTION	K.M.A	[illegible]	

ENGINEER N.C. HALLAS
DRAWN K.M.C. ANDREW
DATE 7-11-78

DWG NO UTCB-221 REV A



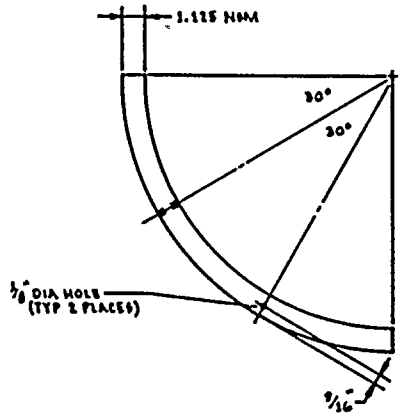


DETAIL

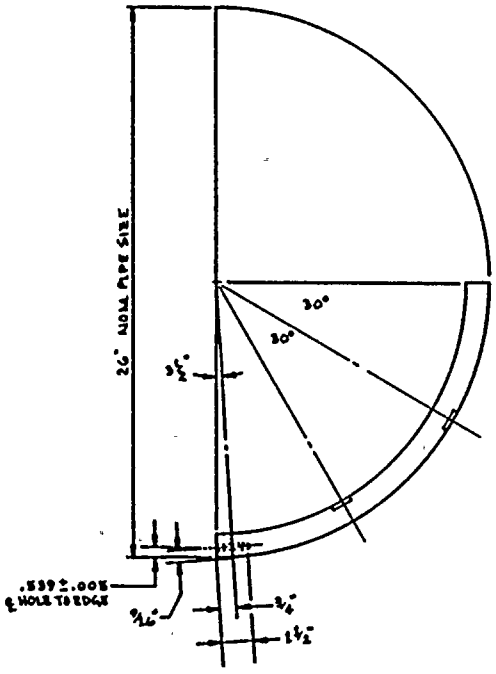
(TYP 4 PLACES)

NOTES:

1. STAMP BLOCKS WITH 3/8" HIGH STEEL STAMP ON ENDS WITH NOM PIPE SIZE, SCH OR WALL THK, MATL SPEC, HEAT NO & CAL BLOCK NO.
2. TOLERANCE ON ANGLES IS ± ½°
3. STANDARD MACHINING TOLERANCES ARE APPLICABLE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE IN INCHES.
5. NOTCH BOTTOM CURVATURE SHOULD CONFORM TO PIPE WALL CURVATURE.



SECTION B-B



SECTION A-A

D.W. Porter

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER N.C. HALLAS

DRAWN K.Mc ANDREW

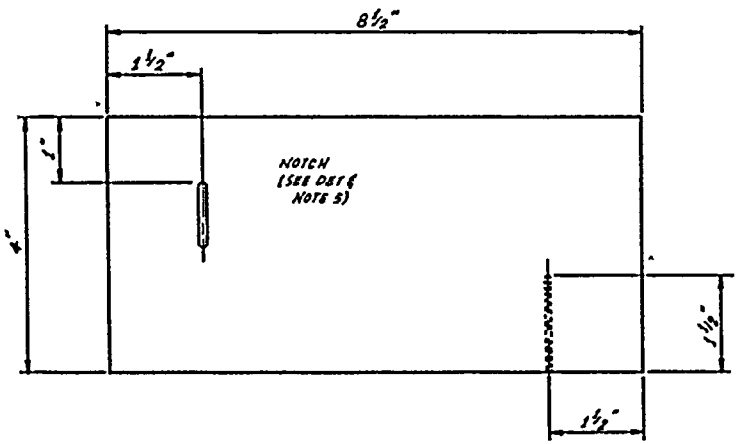
DATE 2-16-79

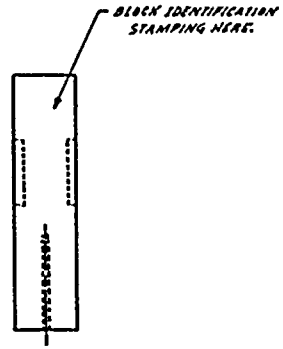
WNP-2

UT-4 CALIBRATION BLOCK

DWG NO UTCB-224 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	2-16-79	ISSUED FOR CONSTRUCTION			



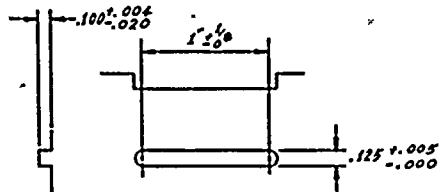


NOTES:

1. STAMP BLOCK WITH ⅛" HIGH STEEL STAMP WITH MATERIAL SPEC, HEAT NO., CAL BLOCK NO. & "WNP-2, RHR-HT-EXCH."
2. ALL DIMENSIONS ARE IN INCHES.
3. MACHINING TOLERANCE IS ± 1/32 INCH UNLESS OTHERWISE NOTED.
4. CALIBRATION HOLE PARALLEL TO PLATE SURFACE, NORMAL TO EDGE, DRILLED & REAMED.
5. NOTCHES TO BE MACHINED WITH .125 DIA FLAT END MILL.

MATERIAL

SA 516 GR 70



NOTCH DETAIL
(TYP 2 PLACES)

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER T HOVLE

DRAWN K. McANDREW

DATE 6-14-79

WNP-2

RHR HEAT EXCHANGER CALIBRATION BLOCK UT-42

DWG NO UTCB-225 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	7/31/79	ISSUED FOR CONSTRUCTION	K.M.A	[illegible]	[illegible]

12.0--MANAGEMENT PLAN

12.1 INTRODUCTION

This management plan describes the interfaces between the various persons involved in performance of the PSI examinations. These interfaces are described for both Supply System and PSI Contractor (Lambert-MacGill-Thomas (LMT)) personnel. The LMT Management Plan, QA-26, which describes the LMT site and home office organization, and the Supply System/LMT interfaces, is incorporated herein by reference, with the actual document located at the end of this section.

This management plan is divided into sections based on activities as follows:

12.2	Site Organization
12.3	Planning and Scheduling
12.4	PSI Program Plan Revisions
12.5	Field Support Services
12.6	Reporting and Disposition of Indications
12.7	Technical Surveillance

Each of the above listed sections consists of a description of the responsibilities and interfaces for that activity, and a corresponding organization chart to illustrate the lines of responsibility and flow of information.

12.2 Site Organization

The LMT site organization is described in the LMT Management Plan, Section X, Page 5. This organization is applicable to the volumetric and surface examinations.

Visual examinations of piping and component supports will be conducted in conjunction with the Test and Startup Program as described in Section 9.0, "Visual Program". The WPPSS ISI Engineer will work with the Test and Startup personnel to ensure that the personnel involved in these examinations are properly trained and the procedures and records generated satisfy the preservice inspection requirements of ASME Section XI, Subsection IWF from the Summer 1978 Addenda insofaras practical.

Visual examinations for evidence of leakage during hydrostatic tests will be conducted as part of the ASME Section III hydrostatic test program as allowed by Section XI.

Visual examinations of Class 1 pump, Valve bodies and the RPV interior will be or have been completed and documented by Supply System personnel.

The WPPSS ISI Engineer is responsible for the overall completion of the Preservice Inspections as designated in Engineering Division Procedure EDP-9.3, "Conduct of Preservice Inspections" (see Section 10.0, "Procedures"). The WPPSS ISI Field Coordinator is, in turn, responsible for the implementation of the PSI Program Plan, i.e., for coordinating the field examination activities. The WPPSS ISI Field Coordinator is the primary contact for the LMT Site Supervisor, and provides day-to-day technical direction to him. He, in turn, directs the activities of his examination teams and the data control personnel.

WNP-2 PSI PROGRAM PLAN

NOT USED

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12.3 Planning and Scheduling

The planning and scheduling of the PSI examinations will be conducted as follows. The organization of personnel involved in planning and scheduling is illustrated on Figure 12.3-1 below. Their primary source of scheduling information is the WPPSS ISI Field Coordinator. The WPPSS ISI Field Coordinator receives input from the WPPSS Project Engineer, WPPSS Planning and Scheduling, the WPPSS ISI Engineering, and WPPSS Construction Management. Weekly scheduling meetings, with greater or less frequencies as needed, will be the primary source of input to the ISI Field Coordinator and Field Supervisor.

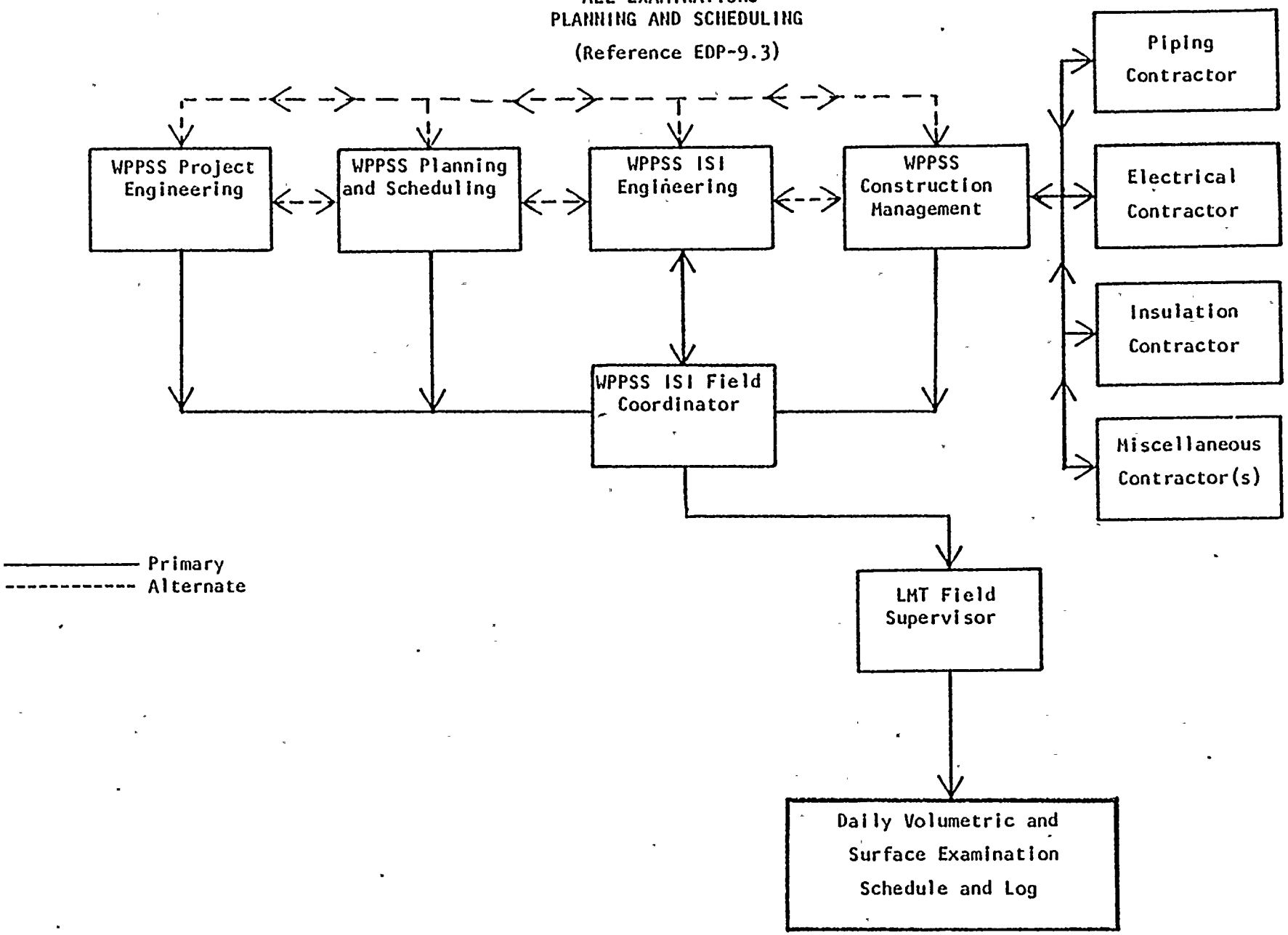
A secondary or alternative coordination activity is shown between WPPSS ISI Engineering and the Project Engineering, Planning and Scheduling, and Construction Management organizations. This is intended to provide coordination assistance by the ISI Engineer to the ISI Field Coordinator on an as-needed basis.

The Supply System has developed a computerized ISI Data Management System which will ensure the completion of all examinations committed to in this Program Plan. This software will allow tracking of progress and aid in scheduling the remaining examinations through to completion. The system is such that all committed examinations are entered into the data bases as open items. The data records for each examination are then entered as they are performed, closing out the individual examinations commitments one at a time. Surveys of the data base can be quickly run to determine remaining examinations as often as needed to assist in planning and scheduling.

Figure 12.3-1

ALL EXAMINATIONS
PLANNING AND SCHEDULING

(Reference EDP-9.3)



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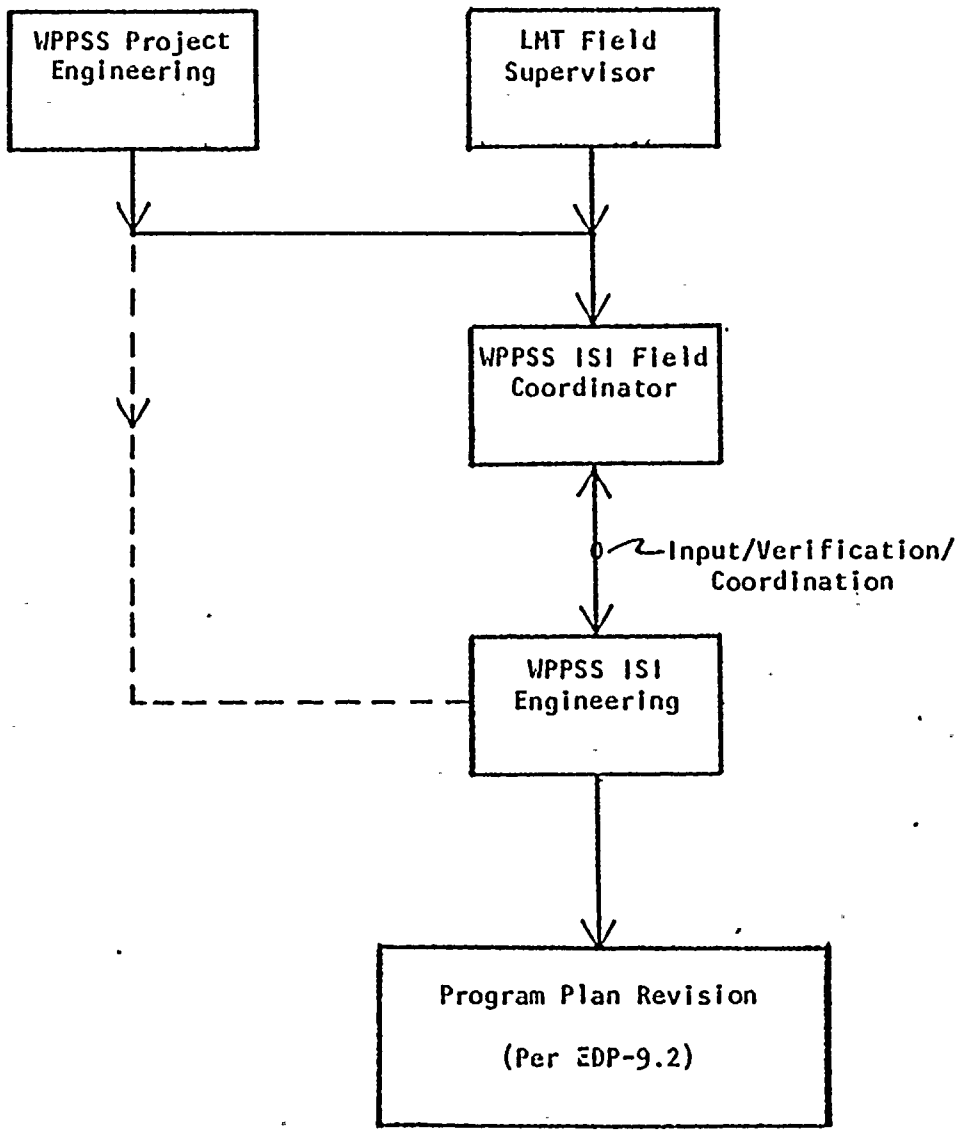
12.4 PSI Program Plan Revisions

WPPSS ISI Engineering is responsible for the maintenance of the PSI Program Plan, and will make changes to the plan as authorized in Engineering Division Procedure EDP-9.2, "Preparation of PSI Plan". The primary source of notification of need for Program Plan revision is the WPPSS ISI Field Coordinator, who in turn receives input from WPPSS Project Engineering, or the LMT Field Supervisor. Alternative examination techniques or methods may also be proposed by the ISI Field Coordinator. The responsible ISI Engineer will verify need for any Program Plan change and coordinate the actual change with the ISI Field Coordinator. Any unexaminable areas discovered in the above process will be documented in the PSI Final Report by the ISI Engineer with appropriate justification which will constitute the basis for request for relief from code requirements as required by the NRC. Figure 12.4-1 illustrates the above described interfaces.

Figure 12.4-1

ALL EXAMINATIONS
PSI PROGRAM PLAN REVISIONS



Primary
Alternate

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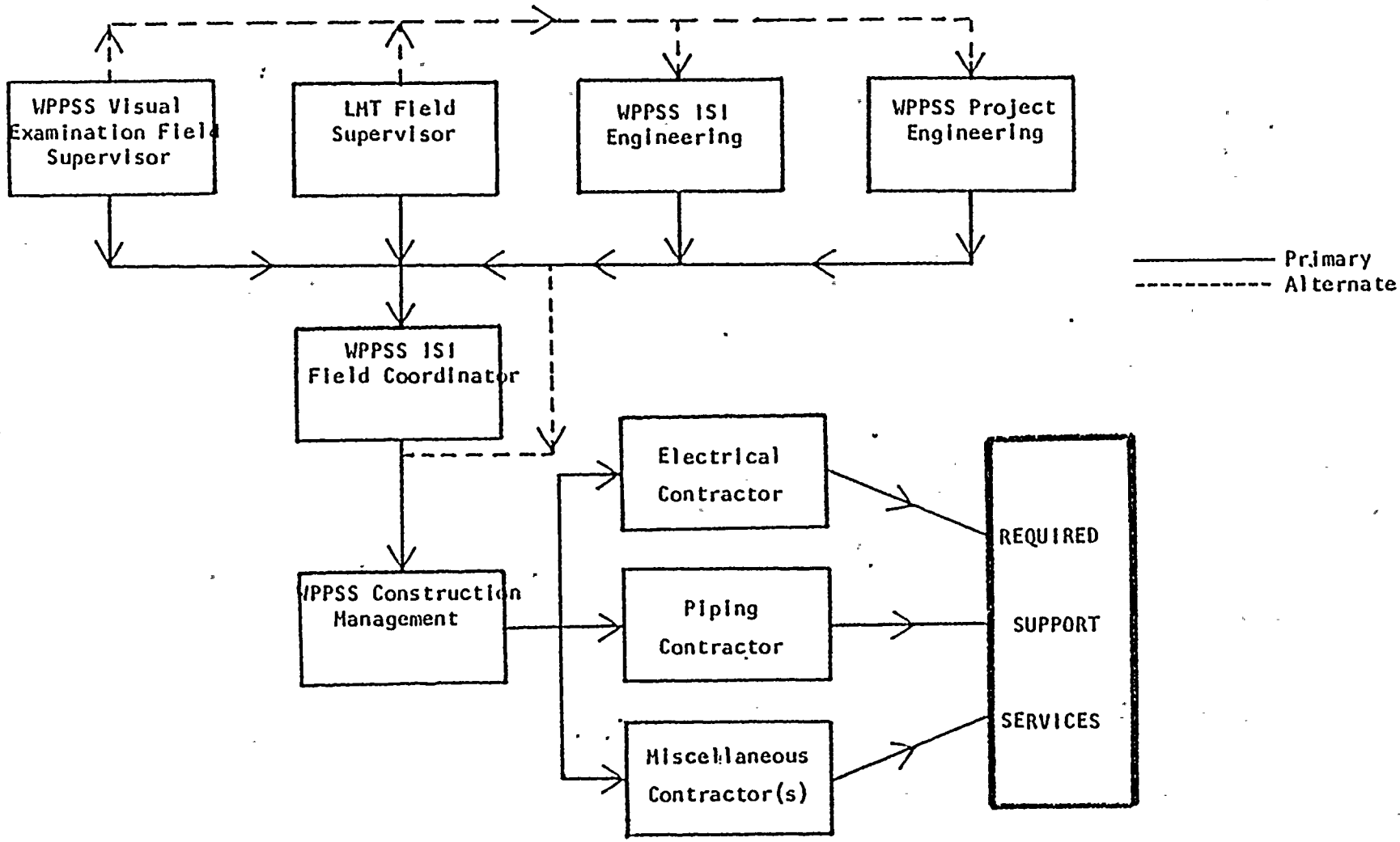
12.5 Field Support Services

The Supply System Construction Management organization is responsible for arranging field support services through the individual field contractors as shown on Figure 12.5-1. The primary source of requests for support services comes from the Supply System ISI Field Coordinator, who in turn receives the requests from the LMT Fields Supervisor/ Foreman. As an alternative, the LMT Field Supervisor may notify the Supply System ISI Engineer or Project Engineer of his need, and he will in turn notify the Field Coordinator. In the event the Field Coordinator is unavailable, the Supply System Construction Management may be notified directly, provided the Field Coordinator is notified as soon as possible of the request.

Field support services include such things as scaffolding, electric power hookup, water, compressed air or nitrogen, ladders, support or insulation removal, cosmetic grinding, etc.

Figure 12.5-1

ALL EXAMINATIONS
FIELD SUPPORT SERVICES



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12.6 Reporting and Disposition of Indications

The LMT Field Supervisor is responsible for reporting all indications to the Supply System ISI Field Coordinator in accordance with his respective NDE procedures, and/or the contract with the Supply System. The Field Coordinator will then verify the existence and status (reportable/not reportable) of the indication, and report the indication to the Supply System ISI Engineer as required. The Field Coordinator will notify ISI Engineering of any significant non-geometric indication such that ISI Engineering will have the opportunity to witness the verification of the existence and status of the indication. The Supply System ISI Field Coordinator will keep a continuous written inventory of reportable indications, and will forward copies of the inventory sheets to the ISI Engineer on a weekly basis during the conduct of Preservice Inspections.

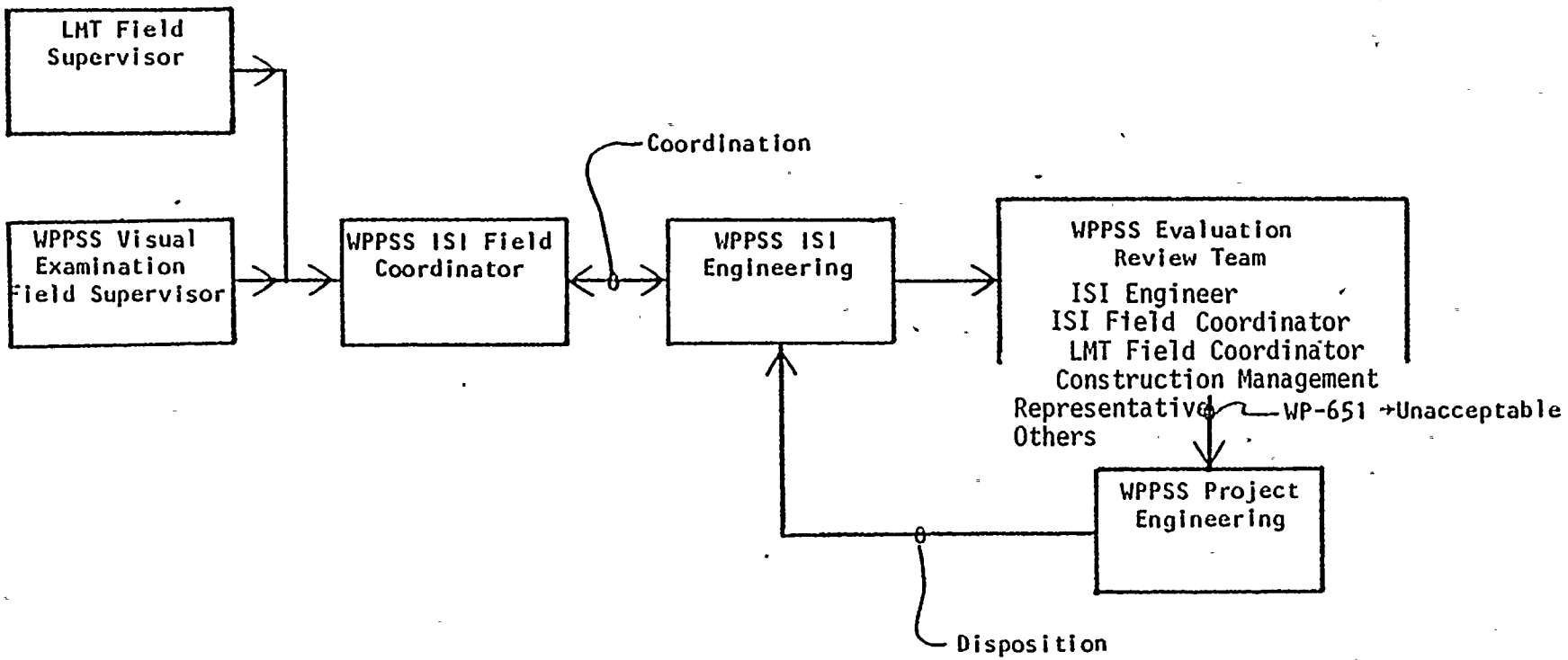
Any reported indication which cannot be routinely dispositioned by the Supply System ISI Engineering or the ISI Field Coodinator, will be presented by the ISI Engineer to the Supply System Evaluation Review Team for action. Disposition of all indications reported to the Evaluation Review Team will be documented on Evaluation Review Team Reports per EDP-9-3, "Conduct of Preservice Examinations".

NOTE: A portion of the preservice examinations of piping systems will be performed prior to final release of those systems by the installation contractor to the owner. During that time period, unacceptable surface conditions which are likely to be easily removed by cosmetic grinding will not be subject to Evaluation Review Team scrutiny.

The ISI Field Coordinator will resolve unacceptable surface indications detected by liquid penetrant, magnetic particle, or visual examination methods by giving Construction Management a detailed description of the unacceptable condition. Construction Management transmits this

Figure 12.6-1

ALL EXAMINATIONS
REPORTING AND DISPOSITION OF INDICATIONS
(Reference EDP-9.3)



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12.7 Reporting and Disposition of Indications

The Supply System ISI Engineering is responsible for technical surveillance of the overall PSI examination effort to ensure compliance with the requirements of the PSI Program Plan. Technical surveillance of the volumetric and surface NDE activities on a day-to-day basis will be accomplished by the ISI Field Coordinator with the aid of a Technical Surveillance Team as required depending on the number of examination teams present on-site and other such factors. The Technical Surveillance Team will be under the direction of the Field Coordinator, and may consist of personnel from either the ISI Engineering or Generation Services organizations. Figure 12.7-1 illustrates the above interfaces for volumetric and surface examinations performed by LMT.

The Technical Surveillance Personnel will complete Daily Log Sheets to document their surveillance. Figure 12.7-3 is a typical Daily Log Sheet. The Log sheets will be returned to the Field Coordinator, who will maintain them in a chronological file on a system basis. The Field Coordinator is responsible for assuring that any follow-up action noted on the log sheets is taken, and will confirm that action by signing and dating the log sheet.

Figures 12.7-1 also illustrates the technical surveillance performed by the WPPSS Authorized Nuclear Inspector.

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LIST OF ABBREVIATIONS
USED ON NDE SUMMARY TABLE

1) @ = At
2) CL = Centerline
3) Hgr = Hanger
4) I D = Inside Diameter
5) O D = Outside Diameter
6) Geo = Geometry
7) In = Inch(s)
8) Ind = Indication(s)
9) DAC = Distance Amplitude Curve
10) - = Minus
11) + = Plus
12) % = Percentage
13) Obst = Obstruction
14) IWC = Index (transducer) to Weld Centerline Distance
15) Sc = Scan
16) Ext = Extent
17) MP = Metal Path
18) Int = Intermittent
19) FD = Finger Damps

WNP-02
INTERVAL: PSI
PERIOD: NA
OUTAGE:
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

DATE 20/11/80

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
24RRC(2)B-1	VOL						
	SUR						
24RRC(2)B-2	VOL	RRU-209	0,45				
	SUR						
24RRC(2)B-2LD	VOL	RRU-210	0,45				
	SUR						
24RRC(2)B-3LU	VOL	RRU-211	0,45				
	SUR						
24RRC(2)B-3	VOL	RRU-202	0	.45			SC 3 50% DAC OD, EXT 360 INT IWC=2 1/4 MP=4.43 FD SC 4 75% DAC ID, EXT 360 IWC=1 1/4 MP=1.8 1 1/2 NODE RETURN 90% DAC; @ 75% DAC IND EXT 360 IWC=2 1/4 MP=3.88
	SUR						
24RRC(2)B-3LDO	VOL	RRU-205		45			SC 11 55% DAC IND, EXT THRU INT IWC=2 1/2 MP=3.61
	SUR						
24RRC(2)B-3LDI	VOL	RRU-203		45			SC 12 80% DAC IND, EXT THRU INT IWC=2 1/4 MP=3.66
	SUR						

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Superseded per Amdt #1 to Preservice Insp Program dtd 11-28-79

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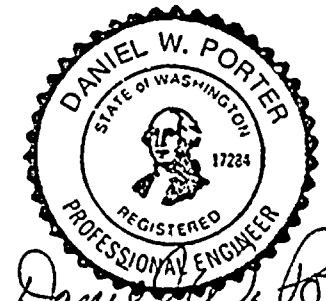
VOLUME I - PROGRAM PLAN

VOLUME II - PROCEDURES

(See Program Plan Section 10.0 for Tabular Index)

RECORD OF PROGRAM PLAN REVISIONS



2/13/79

NO.	DATE	REVISIONS	BY	CHK'D	APP'D
0	1/29/79	Issued for Use			

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DATE 1-8-79
REVISION 0

TITLE	SHEET	REV	TITLE	SHEET	REV	TITLE	SHEET	REV
	3	0						
						RRC-103	1	0
			RRC-102	1	0	Tables	1	0
				2	0		2	0
RRC-101	1	0		3	0			
	2	0		4	0			
	3	0		5	0	RRC-104	1	0
	4	0		6	0	Tables	1	0
	5	0		7	0		2	0
	6	0		8	0		3	0
	7	0	Tables	1	0			
	8	0		2	0			
Tables	1	0		3	0	RRC-105	1	0
	2	0		4	0	Tables	1	0
	3	0		5	0		2	0
	4	0		6	0		3	0
	5	0		7	0		4	0
	6	0		8	0			
	7	0		9	0			
	8	0		10	0	RRC-106	1	0
	9	0		11	0	Tables	1	0
	10	0		12	0		2	0
	11	0		13	0		3	0
	12	0		14	0			
	13	0		15	0			
	14	0		16	0	RRC-107	1	0
	15	0		17	0	Tables	1	0
	16	0		18	0		2	0
	17	0		19	0		3	0
	18	0		20	0			
	19	0		21	0			
	20	0		22	0	RRC-108	1	0
	21	0		23	0		1	0
	22	0					2	0
	23	0						
	24	0						
	25	0						

DATE 1-8-79
REVISION 0

TITLE	SHEET	REV	TITLE	SHEET	REV	TITLE	SHEET	REV
RRC-109	1	0						
Tables	1	0						
	2	0				DW	1	0
RWCU-101	1	0						
	2	0						
	3	0						
	4	0						
	5	0						
Tables	1	0						
	2	0						
	3	0						
	4	0						
						EDR/FDR	1	0
CRD	1	0						
			FPC	1	0			
SLC	1	0				MSLC	1	0
SSW	1	0						
			RRC	1	0	MISC	1	0

DATE 1-8-79
REVISION 0

TITLE	SHEET	REV	TITLE	SHEET	REV	TITLE	SHEET	REV
9.0 Visual	9-1	0		11-9	0		11	1
Exam. Prog.	9-2	0	UTCB-220	1	2		F	1
	9-3	0	UTCB-221	1	2			
	9-4	0	UTCB-222	1	0			
	9-5	0	UTCB-223	1	0			
			UTCB-224	1	0			
						LMT Company	1	0
						Policy	2	0
10.0 Proce-	10-1	0					3	0
dures	10-2	0					4	0
	10-3	0	12.0 Manage-	12-1	0		5	0
	10-4	0	ment Plan	12-2	0		6	0
	10-5	0		12-3	0		7	0
				12-4	0		8	0
				12-5	0			
				12-6	0			
11.0 UT	11-1	0		12-7	0	13.0 QA	1	0
Cal. Std.	11-2	0		12-8	0			
	11-3	0		12-9	0	14.0 Exam.	14-1	0
	11-4	0		12-10	0	Equipt.	14-2	0
UTCB-201	1	0		12-11	0	APP 14A	14A-1	0
	2	0		12-12	0		14A-2	A
	3	0		12-13	0	RPV-103	1	0
	4	0		12-14	0	RPV-104	1	A
UTCB-202	1	0		12-15	0	APP 14B	14B-1	0
	2	0						
UTCB-203	1	0						
UTCB-204	1	0						
UTCB-205	1	0	LMT Man.	Cover Sht	1			
UTCB-206	1	0	Plan.	1	1			
UTCB-207	1	0		2	1			
UTCB-208	1	0		3	1			
UTCB-209	1	0		4	1	15.0 PSI	15-1	0
UTCB-210	1	0		5	1	Report	15-2	0
UTCB-211	1	0		6	1	Submittal	15-3	0
	11-5	0		7	1		15-4	0
	11-6	0		8	1		15-5	0
	11-7	0		9	1		15-6	0
	11-8	0		10	1			

Table 4.1

Itemized Code Applicability and WPPSS Augmented Requirements

Date 1/6/78

Revision 0

Sect XI Exam Item	Sect XI Exam Categ	Description	Applicable Code Sect. III	Applicable Code Sect. XI	WPPSS Augmented Requirements	Program Plan Reference	Remarks
		VESSELS					
B1.1	B-A	Longitudinal and circumferential shell welds in core region	1968,S'70	1974,S'75	1) Record UT data at 20% reference level, mechanized examinations only.	10.0	1) Partial baseline data taken manually prior to vessel installation.
B1.2	B-B	Longitudinal and circumferential welds in shell (other than those of Category B-A and B-C) and meridional and circumferential seam selds in bottom head and closure head (other than those of Category B-C)	1968,S'70	1974,S'75	2) Contractor to notify Owner of all indications >80% Code Acceptance Standards	12.0	2) See section 8.0 for detailed examination requirements..
B1.3	B-C	Vessel-to-flange and head-to-flange circumferential welds	1968,S'70	1974,S'75	3) Preservice mechanized to preservice manual data comparison, mechanized examinations only. (See Remark 1, this page)	10.0	
B1.4	B-D	Primary nozzle-to-vessel welds and nozzle inside radiused section	1968,S'70	1974,S'75			
B1.5	B-E	Vessel penetrations, including CRD and instrument penetrations	1968,S'70	1974,S'75			
B1.6	B-F	Nozzle-to-safe end Welds	1968,S'70	1974,S'75			
B1.7	B-G-1	Closure studs, in place	1968,S'70	1974,S'75			
B1.8	B-G-1	Closure studs and nuts, when removed	1968,S'70	1974,S'75.			
B1.9	B-G-1	Ligaments between threaded stud holes	1968,S'70	1974,S'75			
B1.10	B-G-1	Closure washers, bushings	1968,S'70	1974,S'75			
B1.11	B-G-2	Pressure-retaining bolting	1968,S'70	1974,S'75			
B1.12	B-H	Integrally-welded vessel supports	1968,S'70	1974,S'75			
B1.14	B-I-1	Vessel Cladding	1968,S'70	1974,S'75			
B1.15	B-N-1	Vessel Interior	1968,S'70	1974,S'75			
B1.16	B-N-2	Interior attachments and core support structures	1968,S'70	1974,S'75			
B1.17	B-N-3	Core support structures	1968,S'70	1974,S'75			
B1.18	B-O	Control rod drive housings	1968,S'70	1974,S'75			
B1.19	B-P	Exempted components	1968,S'70	1974,S'75			

Table 4.1

Itemized Code Applicability and WPPSS Augmented Requirements

Date 1/8/79

Revision 0

Sect XI Exam Item	Exam Categ	Description	Applicable Code Sect. III	Applicable Code Sect. XI	WPPSS Augmented Requirements	Program Plan Reference	Remarks
		PIPING					
B4.1	B-F	Safe-end to piping welds and safe-end in branch piping welds	1971,S'73	1974,S'75	1) ASME Section XI, Appendix III 1974, W'75	10.0	1) No UT on welds in piping <4" nominal pipe size.
B4.2	B-G-1	Pressure-retaining bolting, removed	1971,S'73	1974,S'75	2) Record UT data at 20% of reference level, mechanized examinations only.	10.0	2) Visual examinations by Owner
B4.3	B-G-1	Pressure-retaining bolting, in place	1971,S'73	1974,S'75			3) Scope and details of examinations requirements given in Section 8.0.
B4.4	B-G-1	Pressure-retaining bolting	1971,S'73	1974,S'75	3) Owner notification of all indications >80% Code Acceptance Standards.	9.0	
B4.5	G-J	Circumferential and longitudinal pipe welds	1971,S'73	1974,S'75	4) 0° UT exam of plate (welded) pipe.	10.0	
B4.6	B-J	Branch pipe connections welds exceeding six in. diameter	1971,S'73	1974,S'75	5) 100% in lieu of 1 foot of longitudinal welds in pipe and fittings shall be examined during PSI.	10.0	
B4.7	B-J	Branch pipe connection welds six in. diameter and smaller	1971,S'73	1974,S'75			
B4.8	B-J	Socket welds	1971,S'73	1974,S'75	6) Record UT data at 50% of reference level, manual examinations.	10.0	
B4.9	B-K-1	Integrally welded supports	1971,S'73	1974,S'75			
B4.10	B-K-2	Support components	1971,S'73	1974,S'75	7) Perform surface examinations in addition to volumetric on Class I pipe welds.	8.0	
B4.11	B-P	Exempted Components	1971,S'73.	1974,S'75			
B4.12	B-G-2	Pressure-retaining bolting	1971,S'73	1974,S'75			

WNP-2 PRESERVICE INSPECTION SCHEDULE

	3/ 79	4/ 79	5/ 79	6/ 79	7/ 79	8/ 79	9/ 79	10/ 79	11/ 79	12/ 79	1/ 80	2/ 80	3/ 80	4/ 80	5/ 80	6/ 80	7/ 80	8/ 80	9/ 80
Begin Manual Examinations	⬡																		
RPV Hydro								⬡											
Begin Mechanized Exams									⬡										
Complete Preservice Inspection																⬡			
Fuel Load																			⬡
File Final Report																			⬡

Date 1/8/79
Revision 0

Code Requirement - Examine all nonexempt circumferential and longitudinal piping welds using a volumetric method.

Exception/Alternative Examination - Circumferential and longitudinal welds in nonexempt piping less than 4-inch nominal pipe size will be examined using a surface in lieu of volumetric method.

Justification - This exception applies primarily to the following welds in the stated piping systems:

3" RFW (11)-4, CRD/RFW cross-tie, 2 welds
3" RRC (51)-4, vessel drain, 9 welds
2" RRC (51)-4, vessel drain, 11 welds

All piping is seamless carbon steel.

This exception is consistent with later edition and addenda of ASME Section XI to which WNP-2 Inservice Inspection Programs will be subject to. There have been no known objections to this criteria expressed by the NRC in their draft revision to 10 CFR 50, dated April 11, 1978, which proposes to accept editions and addenda of ASME Section XI through the winter 1977 addenda with specific augmented examination requirements stated in the regulation.

Note that there are other Class 1, 2- and 3-inch pipes (e.g., mainsteam drains, head vent) in the

WNP-2 primary system. However, they are exempt based on makeup capability of the normal reactor makeup systems as explained later in this section. Note also that WPPSS, on a voluntary basis, will perform surface examinations on all circumferential and longitudinal welds in nonexempt Class 1 piping 4 inches in diameter and greater in anticipation of the later code editions and addenda which will govern the WNP-2 Inservice Programs.

2) Subarticle IWB-2600, Table IWB-2600, examination item B1.18, Control Rod Drive Housing to Stub Welds:

Code Requirement - Examine 100% of the welds in 10% of the peripheral control rod drive housings using a volumetric examination method. Note that subarticle IWB-1220, paragraph (b)(1), a component may be exempted from volumetric examination if, under postulated conditions of loss of coolant from the component during normal reactor operation, the reactor can be shutdown and cooled down by the reactor coolant makeup systems only. This exemption is limited to 3" nominal pipe size components only.

Exception/Alternative Examination - Control rod drive housings will be subjected to a visual examination for evidence of leakage in lieu of a volumetric examination, even though they exceed 3" nominal pipe size.

Justification - The difference between the 6.000" outside diameter CRD housing and the 6.020" inside diameter stub tube provides an annulus between the two parts of 0.010" with CRD housing supports in

WNP-2 ISI BOUNDARY DIAGRAM

Date 1/8/79
Revision 0

EXCEPTIONS AND EXEMPTIONS

ISI - 217

SYSTEM Miscellaneous Containment Penetrations

EXCEPTIONS:

Class 1 Piping-and-Components

° Not applicable; all penetrations on this drawing are Class 2, associated with Class 3 piping systems.

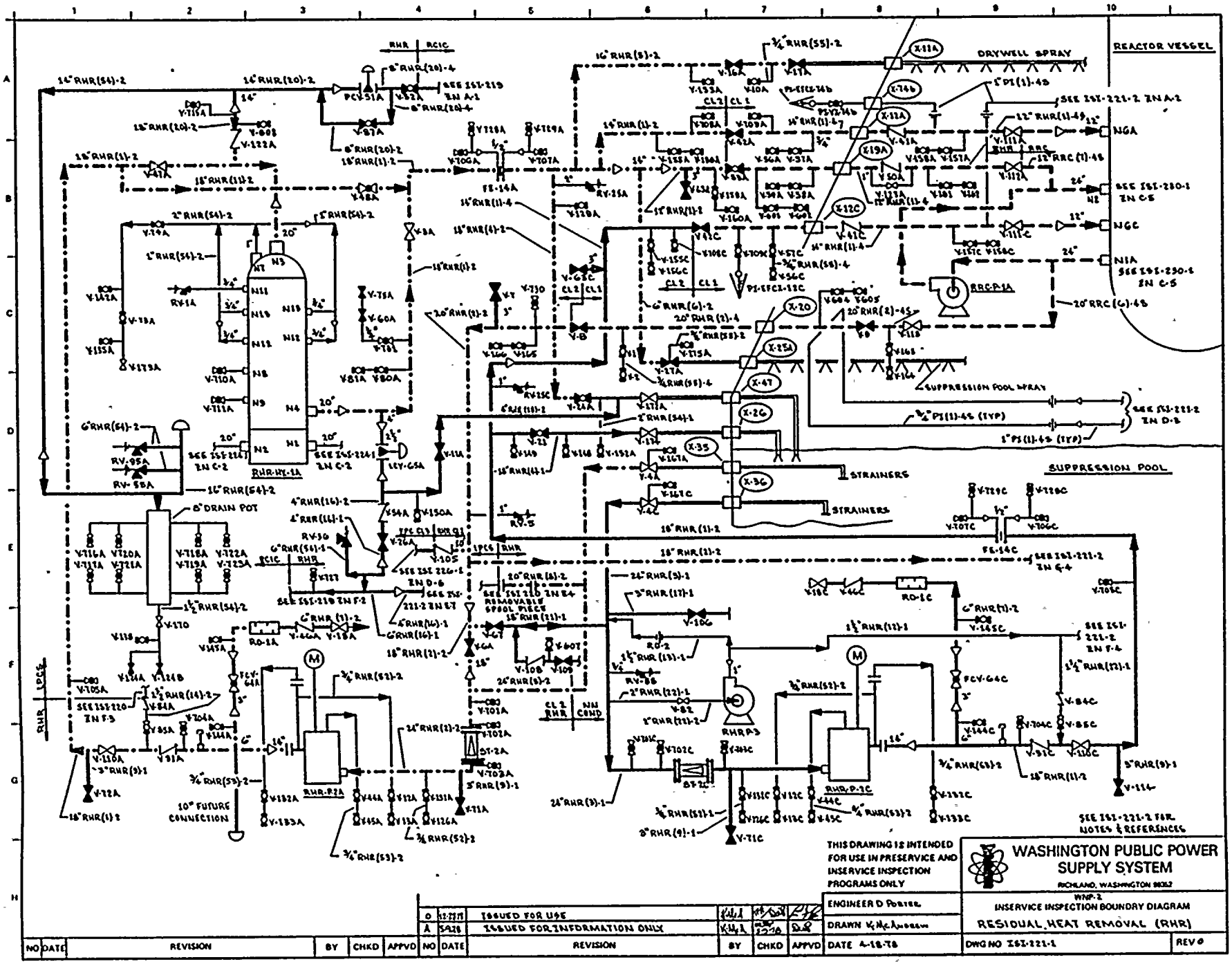
Class 2 Piping and Components

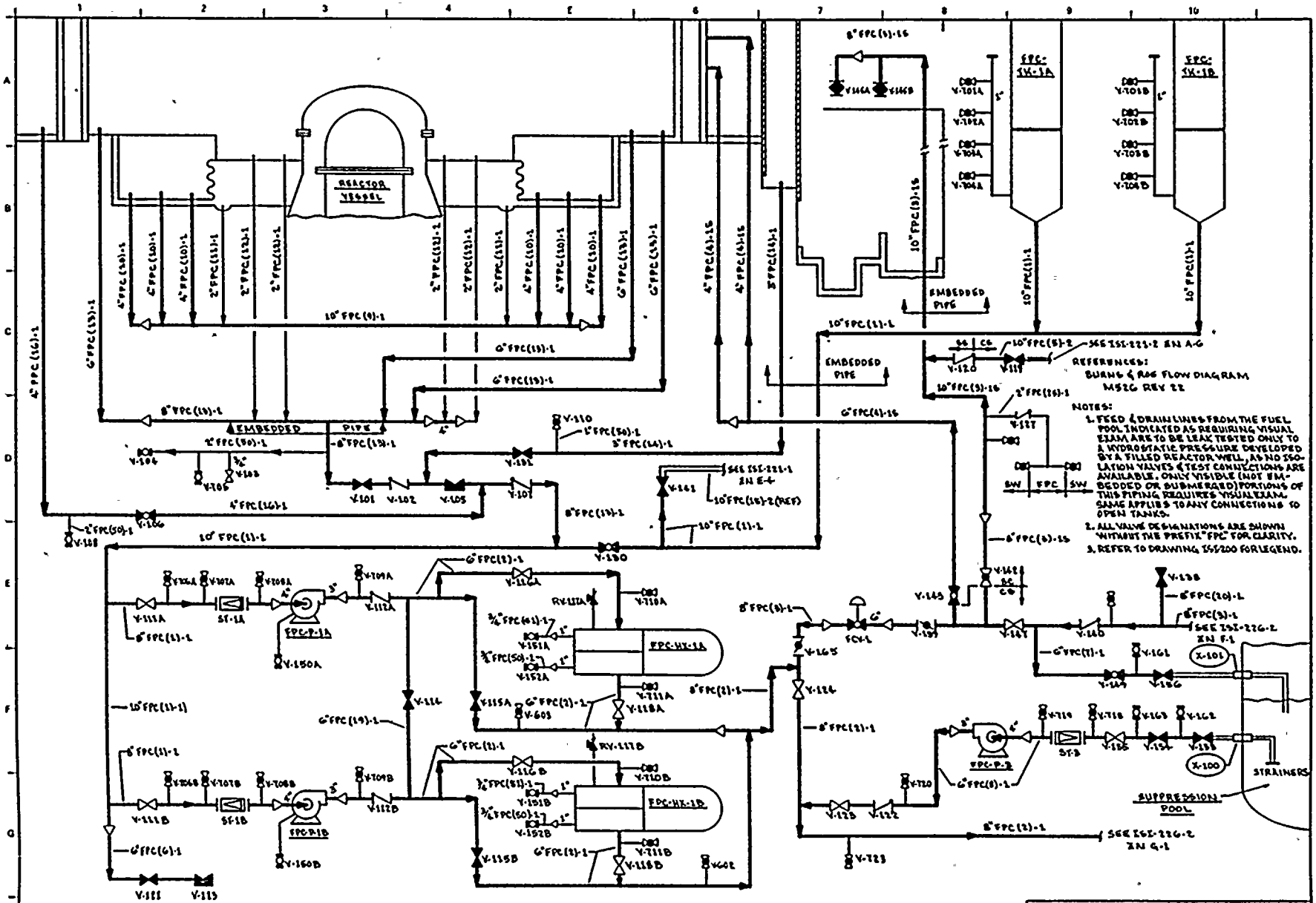
° No exceptions.
° See Note 2 on drawing.

EXEMPTIONS APPLIED:

IWB-1220(a)(1)	No
(2)	No
(3)	No
(4)	No
*(b)(1)	No
(2)	No
(3)	No
IWC-1220(a)	Yes, all piping
*(b)	No
(c)	No
(d)	No
IWC-5220(d)	No
IWD-5200(c)	Yes, open ended drains inside dry well.

* See general exemption discussion for details.


REACTOR VESSEL
DRYWELL SPRAY
SUPPRESSION POOL SPRAY
SUPPRESSION POOL
STRAINERS
STRAINERS
RHR-HX-1A
RRC-P-1A
RHRP-2
RHRP-1C
RHR-P-2A
6" DRAIN POT
10" FUTURE CONNECTION
NGA
NGB
NIA
NIB
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDRY DIAGRAM
RESIDUAL HEAT REMOVAL (RHR)
ENGINEER D Porter
DRAWN V. McAnaney
DATE 4-18-78
DWG NO 2SI-221-1
REV 0
NO DATE REVISION BY CHKD APPVD
0 12-29-77 ISSUED FOR USE
A 5-9-78 ISSUED FOR INFORMATION ONLY



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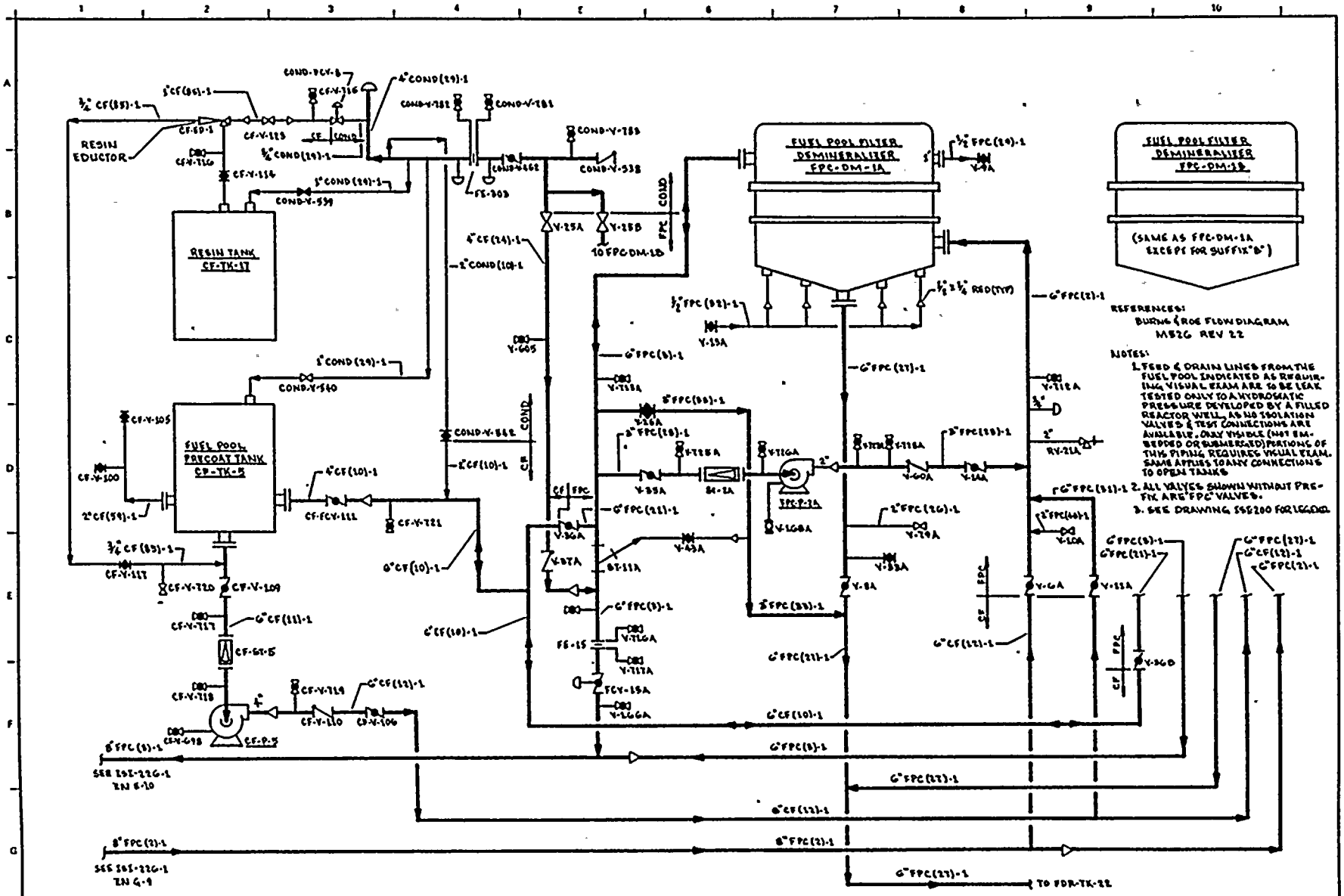
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	V.M.A.	[illegible]	[illegible]
A	10-15-79	ISSUED FOR INFORMATION ONLY	V.M.A.	[illegible]	[illegible]

ENGINEER D PORTER
DRAWN V.M. ANDREW
DATE 4-20-78

WNP-2
INSERVICE INSPECTION BOUNDRY DIAGRAM
FUEL POOL COOLING (FPC)

DWG NO 151-226-1 REV 0



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER D PORTER
DRAWN K. M. ANDREW
DATE 9-28-78

WNP-2
INSERVICE INSPECTION BOUNDRY DIAGRAM
FUEL POOL COOLING (FPC)

DWG NO 791-226-2 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-19-79	ISSUED FOR USE	KMA	[illegible]	[illegible]
A	10-15-79	ISSUED FOR INFORMATION ONLY	KMA	[illegible]	[illegible]

WNP-2 ISI BOUNDARY DIAGRAM

Date 1/8/79
Revision 0

EXCEPTIONS AND EXEMPTIONS

ISI - 226

SYSTEM Fuel Pool Cooling (FPC)

EXCEPTIONS:

Class 1 Piping and Components

o Not applicable; entire system Class 3 or nonnuclear only.

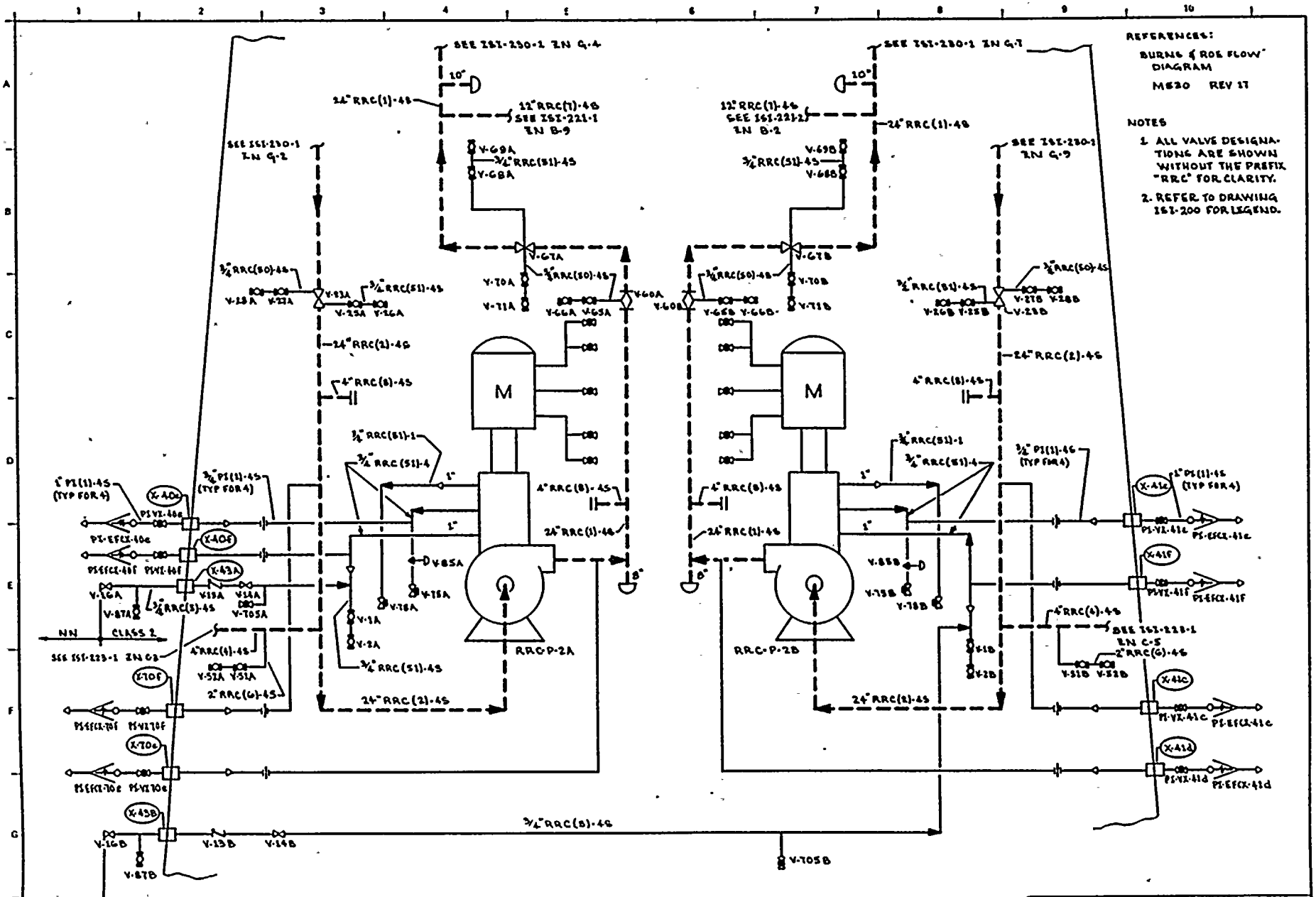
Class 2 Piping and Components

o Not applicable; entire system Class 3 or nonnuclear only.

EXEMPTIONS APPLIED:

IWB-1220(a)(1)	No
(2)	No
(3)	No
(4)	No
*(b)(1)	No
(2)	No
(3)	No
IWC-1220(a)	No
*(b)	No
(c)	No
(d)	No
IWC-5220(d)	No
IWD-5200(c)	Yes, open ended piping to suppression pool.

* See general exemption discussion for details.



REFERENCES:

BURNS & ROE FLOW DIAGRAM M-520 REV 17

NOTES

1. ALL VALVE DESIGNATIONS ARE SHOWN WITHOUT THE PREFIX "RRC" FOR CLARITY.
2. REFER TO DRAWING 151-200 FOR LEGEND.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE			
A	6/26/78	ISSUED FOR INFORMATION ONLY			

ENGINEER D PORTER

DRAWN K. McANDREW

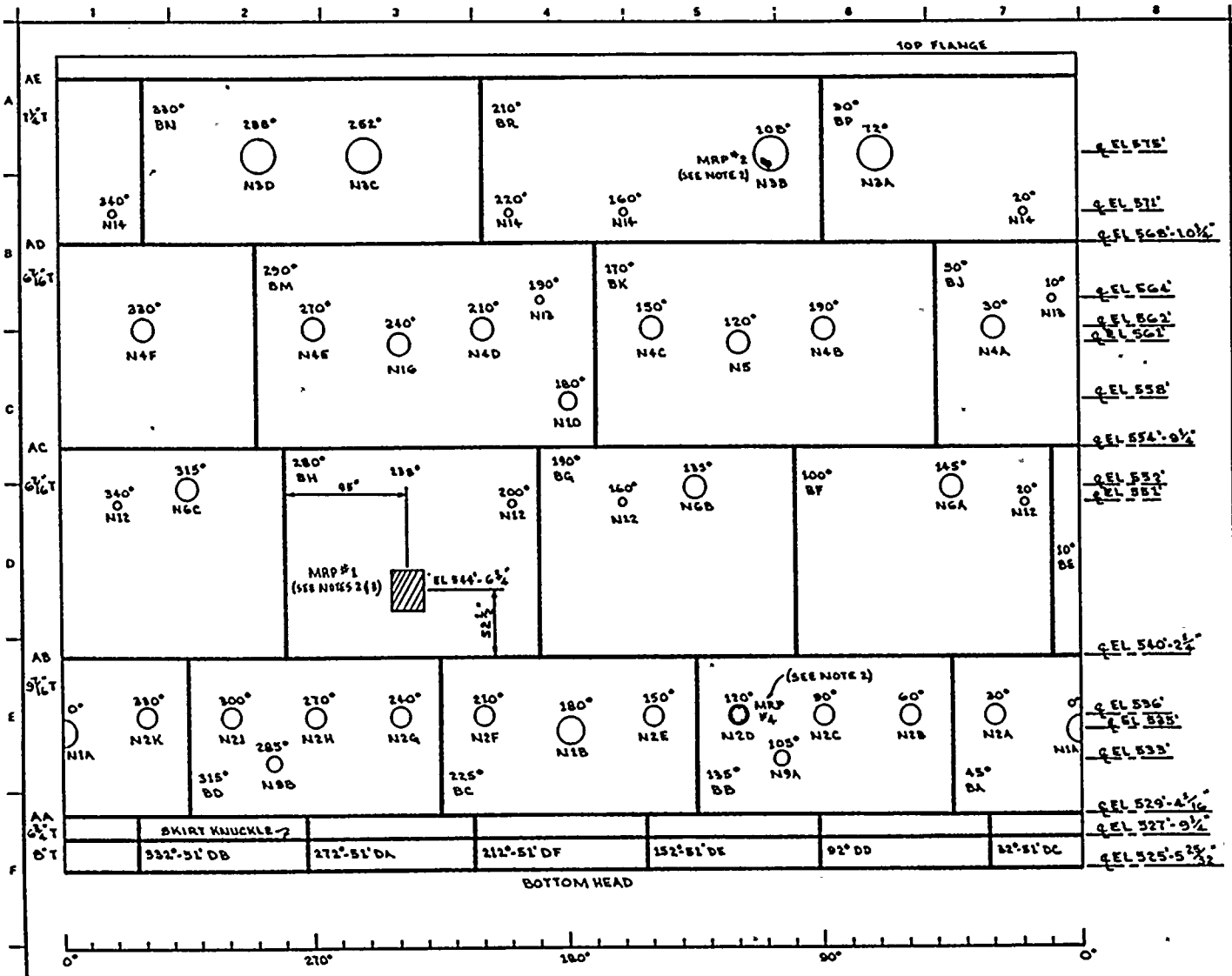
DATE 8-21-78

WNP-2

INSERVICE INSPECTION BOUNDRY DIAGRAM

REACTOR RECIRCULATION (RRC)

DWG NO 151-280-2 REV 0



NOTES:

1. REFER TO PROGRAM PLAN & SCHEDULE TABLES FOR EXAMINATION & CALIBRATION BLOCK REQUIREMENTS.
2. "MRP" INDICATES MAJOR REPAIR AREA. MRP #3 AT N2E NOZZLE TO SAFE END WELD PREP IS NOT SHOWN.
3. MRP #1 IS 2¾" TO 3⅛" IN DEPTH & IS 15" WIDE BY 30" HIGH. NOTE THAT MRP #1 AREA CENTER IS DIMENSIONALLY REFERENCED.

REFERENCES:

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
REACTOR PRESSURE VESSEL	251	N.A.	1⅛, 6⅛, 9⅜	SA 508 GR B	CS	NOTE 1

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE			
A	5-12-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: K. HANNAM | DRAWN: | DATE: 2-23-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR PRESSURE VESSEL ROLL-OUT

DWG NO: RPV-101 | REV 0

VIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RPV

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: NOZZLES - SHELL

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	IVT-1	IVT-2	IVT-3	IVT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	N1-0	Recirc. Suction Nozzle to Vessel @0°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N1-180	Recirc. Suction Nozzle to Vessel @180°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-30	Recirc. Return Nozzle to Vessel @30°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-60	Recirc. Return Nozzle to Vessel @60°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-90	Recirc. Return Nozzle to Vessel @90°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-120	Recirc. Return Nozzle to Vessel @120°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-150	Recirc. Return Nozzle to Vessel @150°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-210	Recirc. Return Nozzle to Vessel @210°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			

VIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 9

INTERVAL.: Baseline SYSTEM OR COMPONENT NO. RPV DATE: 1/8/79

PERIOD: N/A DESCRIPTION: NOZZLES - SHELL REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	N2-240	Recirc. Return Nozzle to Vessel @240°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-270	Recirc. Return Nozzle to Vessel @270°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-310	Recirc. Return Nozzle to Vessel @310°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-330	Recirc. Return Nozzle to Vessel @330°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N3-72	MS Nozzle to Vessel @72°	B-D	X X						UTP-27 UTP-24	UT-121 UT-122			
RPV-101	N3-108	MS Nozzle to Vessel @108°	B-D	X X						UTP-27 UTP-24	UT-121 UT-122			
RPV-101	N3-252	MS Nozzle to Vessel @252°	B-D	X X						UTP-27 UTP-24	UT-121 UT-122			
RPV-101	N3-288	MS Nozzle to Vessel @288°	B-D	X X						UTP-27 UTP-24	UT-121 UT-122			
RPV-101	N4-30	FW Nozzle to Vessel @30°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			

WNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 5 of 9

INTERVAL: Baseline SYSTEM OR COMPONENT NO. RPV DATE: 1/8/79

PERIOD: N/A DESCRIPTION: NOZZLES - SHELL REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	N4-90	FW Nozzle to Vessel @90°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N4-150°	FW Nozzle to Vessel @150°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N4-210	FW Nozzle to Vessel @210°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N4-270	FW Nozzle to Vessel @270°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N4-330	FW Nozzle to Vessel @330°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N5-120	LPCS Nozzle to Vessel @120°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N6-45	LPCI Nozzle to Vessel @45°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N6-135	LPCI Nozzle to Vessel @135°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N6-315	LPCI Nozzle to Vessel @315°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N9-105	J. P. Inst. Nozzle to Vessel @105°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N9-285	J. P. Inst. Nozzle to Vessel @285°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			

NMP- 2 PROGRAM PLAN AND SCHEDULE PAGE 6 of 9

INTERVAL: Baseline SYSTEM OR COMPONENT NO. RPV DATE: 1/8/79

PERIOD: N/A DESCRIPTION: NOZZLES - SHELL REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	N10-180	CRD Nozzle to Vessel @180° (capped)	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N16-240	HPCS Nozzle to Vessel @240°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N12	Vessel Instrument Penetration (4 ea)	B-E				X			QCS&I-002				
RPV-101	N13	Vessel Instrument Penetration (2 ea)	B-E				X			QCS&I-002				
RPV-101	N14	Vessel Instrument Penetration (4 ea)	B-E				X			QCS&I-002				
N/A	N17	Flange Seal Leakage Pen.	B-E				X			QCS&I-002				

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 9

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. RPV | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: MAJOR REPAIR AREAS | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	MRP-1	Major Repair Area 15" X 30" in #2 Shell @ Approx 238° Elevation 545'	B-A	X						UTP-30	UT-120			
RPV-101	MRP-2	Major Repair Area in Nozzle N3-108 (MS) Nozzle Forging Located @180° (Approx), 15½ X 2 X 23/32	B-A							(See Remark)				This Area Examined During N3-108 Nozzle to Shell Weld Exam.
RPV-101	MRP-3	Major Repair Area in Nozzle N2-150, (Recirc), 3 X 3/4 X 11/16 ID Repair Adjacent to Nozzle to Safe-Ended Weld	N/A							(See Remark)				No Examination Required; Repair not in Beltline Region

WHP- 2

INTERVAL: Baseline

PERIOD: N/A

PROGRAM PLAN AND SCHEDULE

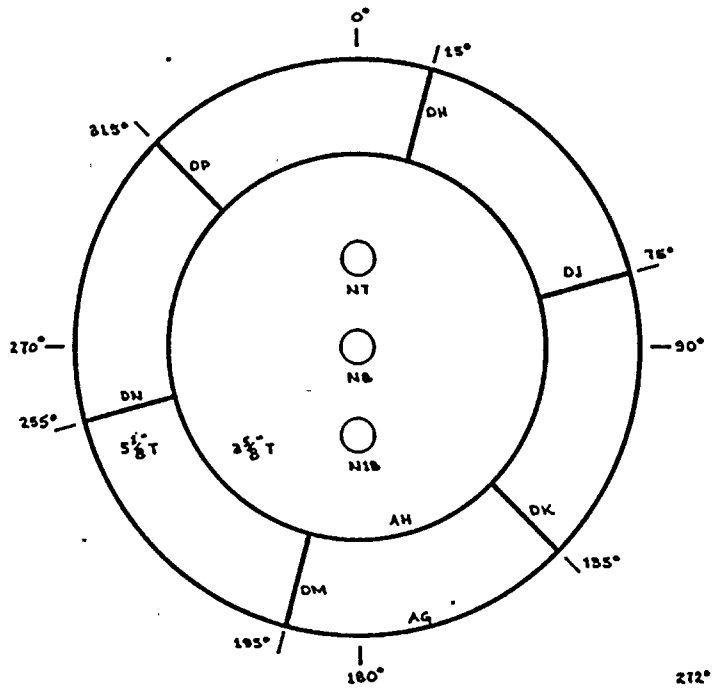
SYSTEM OR COMPONENT NO. RPV

DESCRIPTION: MAJOR REPAIR AREA, STUDS, NUTS, ETC.

DATE: 1/8/79

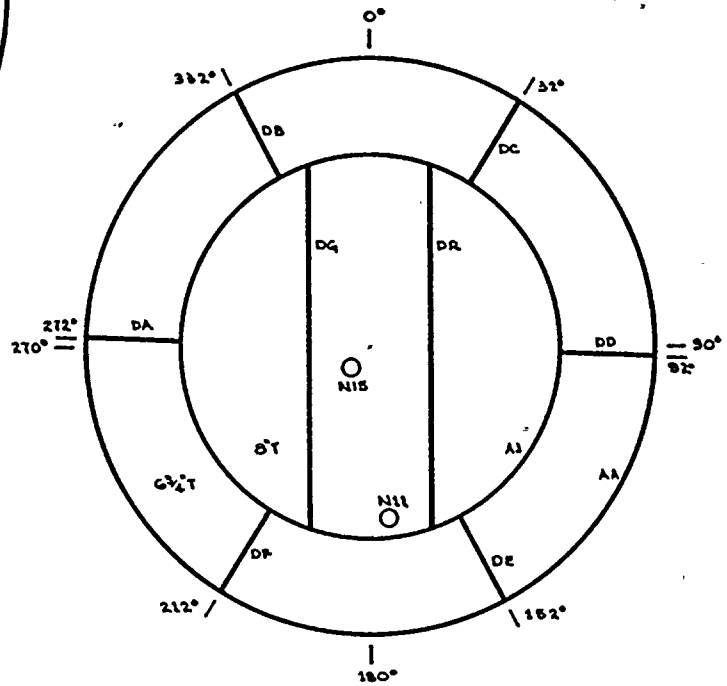
REVISION: 0

DWG NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	MRP-4	Major Repair Area in Nozzle N2-120 (Recirc), 26" ID X 49"OD Area	B-A	X						(See Remark)				This Area Examined During N2-120° Nozzle to Shell Weld Exam. Only Repair Area in Upper 180° Section Considered in Proximity of Core Area.
N/A	RPV Studs	RPV Studs (76 ea):												
		1) In Place	B-G-1	X						UTP-32	UT-130			
		2) Removed	B-G-1	X						UTP-32	UT-130			
					X					PTP-1				
N/A	RPV Nuts	RPV Nuts (76 ea)	B-G-1	X						UTP-32	UT-132			
					X					PTP-1				
N/A	RPV Washers	RPV Washers (76 ea)	B-G-1			X				QCS&I-002				
N/A	Bushing	RPV Bushing (1 only)	B-G-1			X				QCS&I-002				
N/A	Ligaments	RPV Flange Ligaments (76 ea)		X						UTP-28	UT-119			
N/A	Cladding	Vessel Shell Internal Clad Surfaces	B-J-1			X				QCS&I-002				
N/A	RPV Interior	Reactor Vessel Interior	B-N-1			X				QCS&I-002				



TOP HEAD ASSEMBLY (RPV)

PLAN VIEW



BOTTOM HEAD ASSEMBLY (RPV)

INSIDE PLAN VIEW

NOTES:

1. REFER TO PROGRAM PLAN & SCHEDULE TABLES FOR EXAMINATION CALIBRATION BLOCK REQUIREMENTS.

REFERENCES:

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
TOP HEAD	251	NA	3⅝, 5⅛	SA 508 GR B	CS	NOTE 1
BOTTOM HEAD	251	NA	6¾, 8	SA 508 GR B	CS	NOTE 1

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE	KML	DWP	DWP
A	5-22-78	ISSUED FOR INFORMATION ONLY	KML	DWP	DWP

QUALITY CLASS:	ASME CODE CLASS:
ENGR: G. A. K. R. E.	DRAWN: K. M. L. A. DATE: 2-28-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: REACTOR PRESSURE VESSEL TOP & BOTTOM HEAD WELDS

DWG NO: RPV-102 REV 0

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 3 OF 3.

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RPV

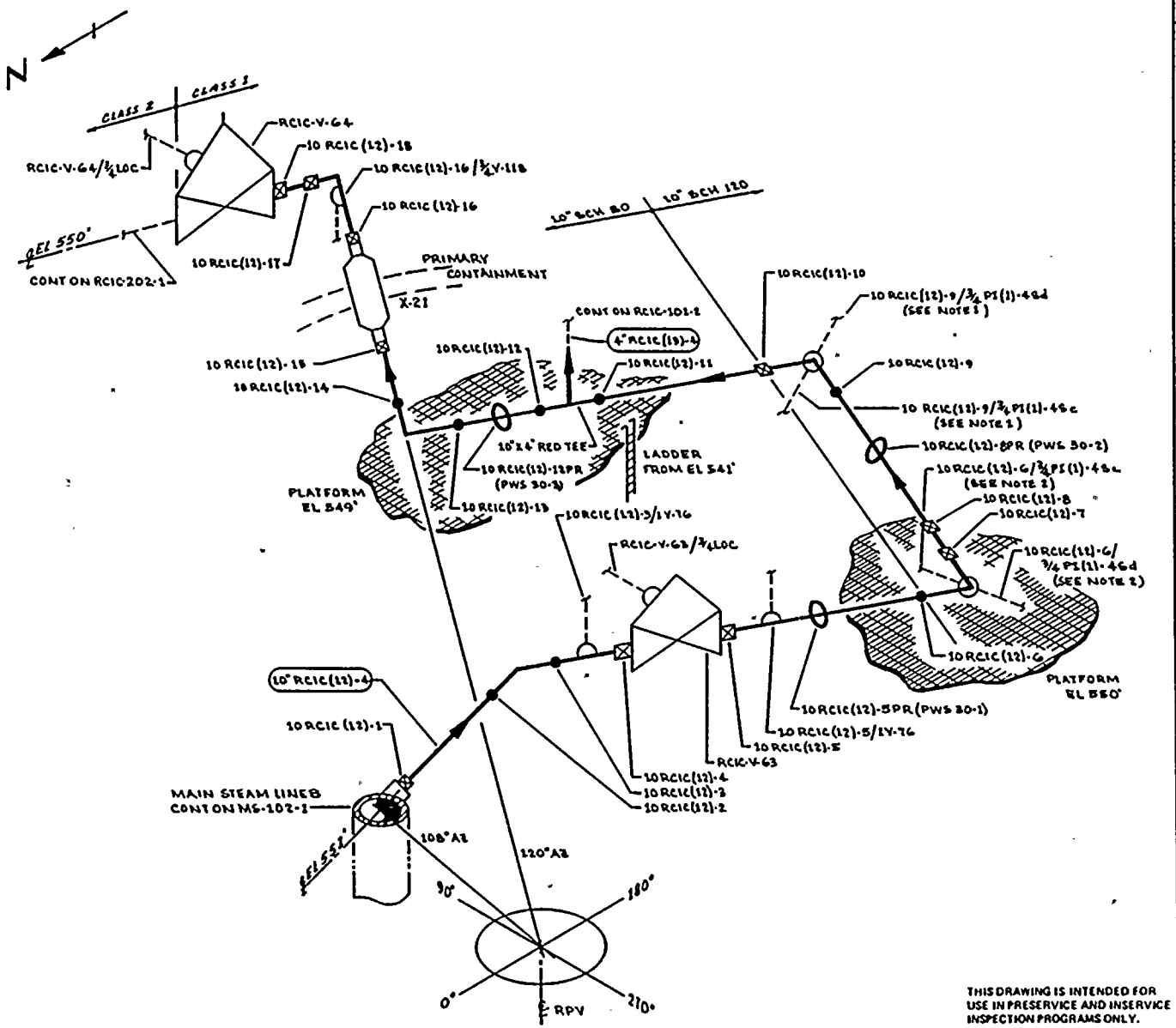
DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: TOP & BOTTOM HEAD NOZZLES

REVISION: 0

DWG NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-102	N7	Head Spray Nozzle to Head Top	B-D	X X						UTP-27 UTP-24	UT-115 UT-122			
RPV-102	N-8	Head Vent Nozzle to Top Head	B-D	X X						UTP-27 UTP-24	UT-115 UT-122			
RPV-102	N-18	Spare Nozzle to Top Head	B-E	X X						UTP-27 UTP-24	UT-115 UT-122			
RPV-102	N-11	Vessel Inst. & SLC Bottom Head Penetration	B-E				X			QCS&I-002				
RPV-102	N-15	Vessel Drain Bottom Head Penetration	B-E				X			QCS&I-002				
N/A	CRD	Control Rod Drive Bottom Head Penetrations (185 ea)	B-E				X			QCS&I-002				
N/A	INCORE	Incore Instruments Bottom Head Pen. (55 ea)	B-E				X			QCS&I-002				



NOTES

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-7 1 & 4 d) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-38 c & d) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-663-1.2 REV 6
RCIC-663-3.5 REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10" RCIC (12)-4	10	80	0.594	SA 106 GR B	CS	UT-22
10" RCIC (12)-4	10	120	0.844	SA 106 GR B	CS	UT-23

NO	DATE	REVISION	BY	CHKD	APPVD
0	11 27 78	ISSUED FOR USE			
A	3 15 78	ISSUED FOR INFORMATION ONLY			

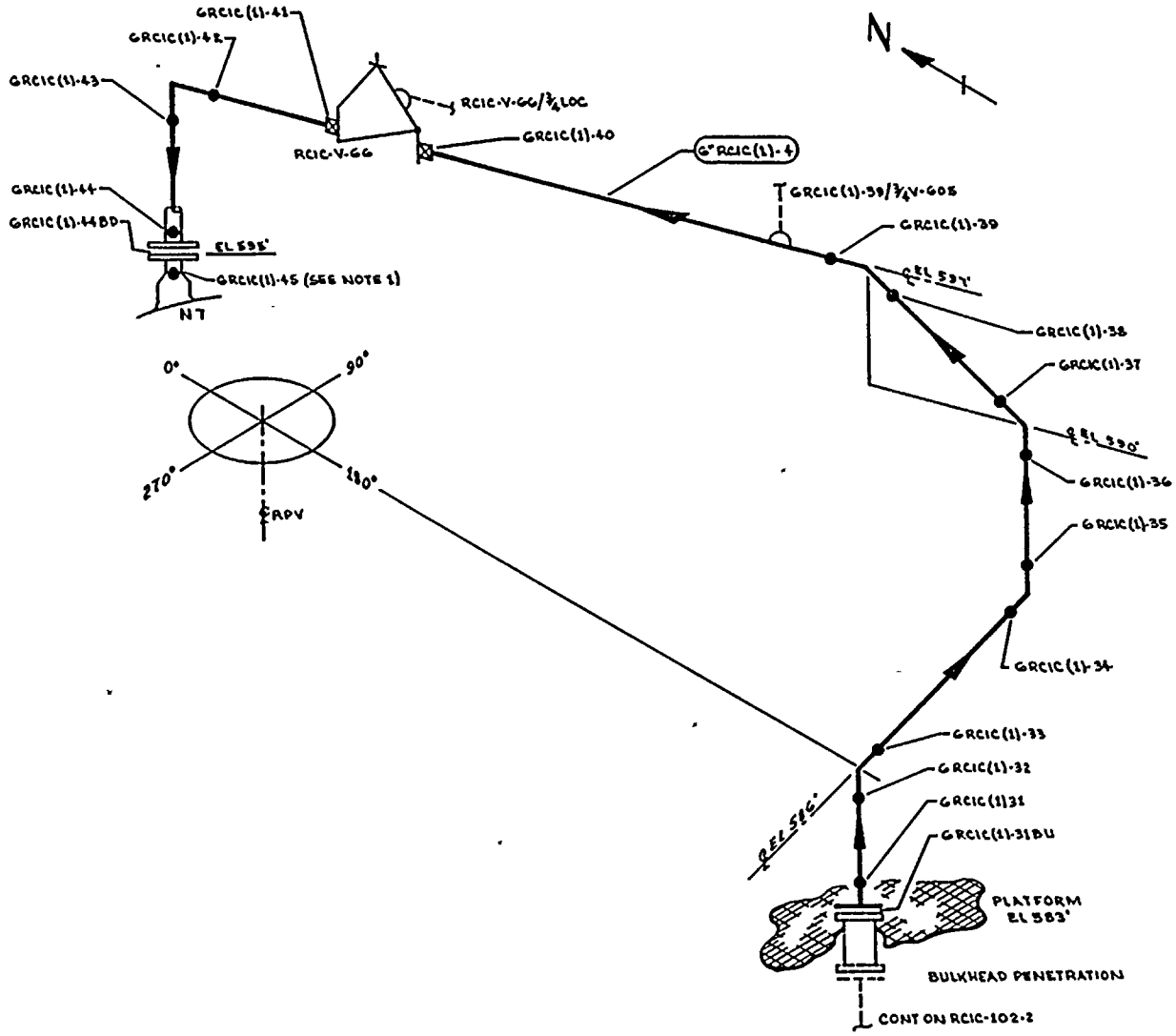
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D PORTER | DRAWN: V, M, & A | DATE: 11-4-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RCIC STEAM SUPPLY

DWG NO. RCIC-101-1 | REV 0



NOTES:

1. WELD GRCIC(1)-45 UTILIZES CAL BLOCK UT-107.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RCIC-659-27.28 REV 4

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RCIC(1)-4	6	.80	0.432	SA 106 GR B	CS	UT-28

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-1979	CAL BLOCK REFERENCE CHANGED	KMcL	KMcL	DJP
0	11-7-78	ISSUED FOR USE	KMcL	DJP	DJP
A	5-1978	ISSUED FOR INFORMATION ONLY	KMcL	KMcL	DJP

QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D PORTER | DRAWN: KMcL | DATE: 4-26-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RESIDUAL HEAT REMOVAL/
REACTOR CORE ISOLATION COOLANT HEAD SPRAY

DWG NO: RCIC-102-3 | REV 1

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 8

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(10)-4, RCIC(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RPV HEAD SPRAY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	RHR-V-23	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
RCIC-102	RHR-V-23	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	6 RHR(10)-1	VLV TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RHR(10)-1/ 3/4 V-62	TEST CONN	B-P				X			QCS&I-002				
RCIC-102	6 RHR(10)-2	PIPE TO VLV	B-J	X						UTP-10	UT-28			FITTING TO FITTING <6"
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	RHR-V-19	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
RCIC-102	RHR-V-19	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-13	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-13	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 8

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RCIC(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RPV HEAD SPRAY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	RCIC-V-13/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-1	VLV TO TEE	B-J	X						UTP-10	UT-28			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-1/ 3/4 V-114	TEST CONN	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-2	VLV TO TEE	B-J	X						UTP-10	UT-28			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-3	TEE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-4	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-5	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-6	PIPE TO VLV	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RCIC(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RPV HEAD SPRAY

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	RCIC-V-65	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-65	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-65/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-7	VLV TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-7/ 3/4V-82	TEST CONN	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-8	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-9	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-9/ 3/4 SP198	HOL TO PIPE	B-J		X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-10	PIPE TO PEN	B-J	X						UTP-10	UT-28			PEN. X-2
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 8

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RCIC(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RPV HEAD SPRAY | REVISION: 0

DIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-11	PEN TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-12	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-13	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-14	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-15	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-16	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-17	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-18	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 8

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RCIC(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RPV HEAD SPRAY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-19	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-20	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-21	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-22	PIPE TO FLNG	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-22 BD	FLNG BOLTING	B-G-2			X				QCS&I-002				12 - 1 1/8" BOLTS W/NUTS
								X		QCS&I-002				
RCIC-102	6 RCIC(1)-23	FLNG TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-24	PIPE TO FLANGE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-25 BU	FLNG BOLTING	B-G-2			X				QCS&I-002				12 - 1 1/8" BOLTS W/NUTS
								X		QCS&I-002				

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-25	FLNG TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-26	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-27	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-28	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-29	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-30	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-31	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-32	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

VIP- 2

PROGRAM PLAN AND SCHEDULE

DATE: 1/8/79

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RCIC(1)-4

REVISION: 0

PERIOD: NA

DESCRIPTION: RPV HEAD SPRAY

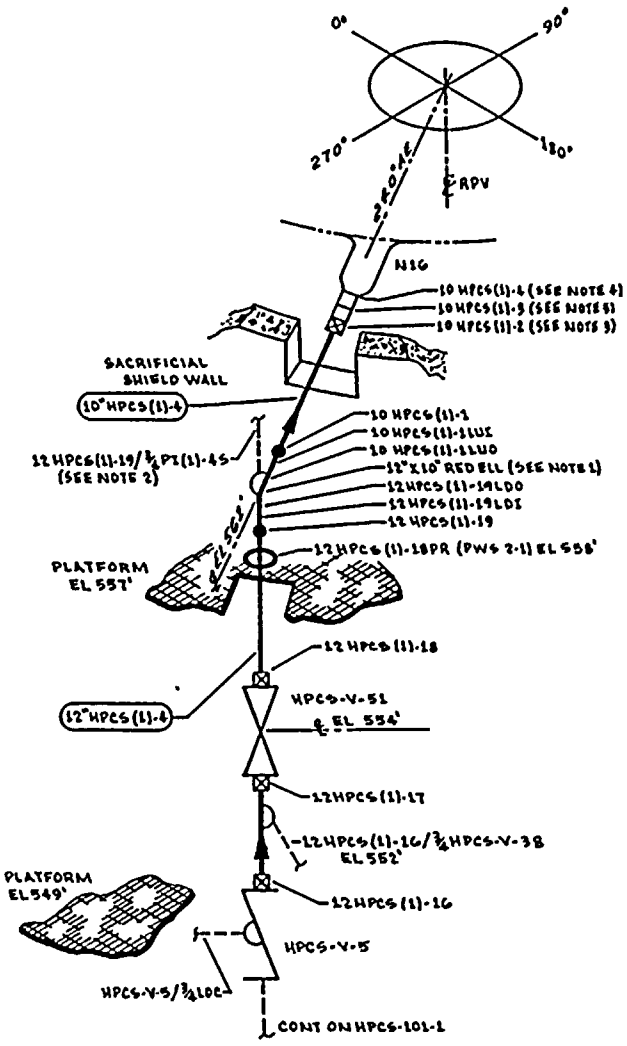
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-33	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-33/ V-605	VENT CONN	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-34	PIPE TO VLV	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	RCIC-V-66	VALVE BODY	B-M-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-66	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-66/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-35	VLV TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-36	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-37	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of 8

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RCIC(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RPV HEAD SPRAY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-38	PIPE TO FLNG	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-38 BD	FLNG BOLTING	B-G-2				X			QCS&I-002				12 - 1 1/8", W/BOLTS
RCIC-102	6 RCIC(1)-39	FLNG TO NOZZLE (RPV)	B-J	X						UTP-10	UT-107			
					X					PTP-1				
							X			QCS&I-002				



NOTES:

1. 12"X 10" RED ELL IS WELDED SCH 80 SA 234 GR WPB-W.
2. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-73a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. DISTANCE BETWEEN WELDS 10 HPCS(1)-2 & 10" HPCS(1)-3 IS LESS THAN 6".
4. DISSIMILAR METAL WELD, CS TO INCO, USE CAL BLOCK UT-102.
5. DISSIMILAR METAL WELD, INCO TO CS, USE CAL BLOCK UT-106.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

HPCS-G30-29.30 REV 3
HPCS-G30-31.33 REV 3

QUALITY CLASS: 1	ASME CODE CLASS 1
ENGR: GA KUGLER	DRAWN: K.McA DATE: 11-2-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12"HPCS(1)-4	12	80	0.688	SA 106 GR B	CS	UT-17
10"HPCS(1)-4	10	80	0.594	SA 106 GR B	CS	UT-22

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-78	REVISED REFERENCE TO NOTES 4 & 5	K.McA	[illegible]	[illegible]
0	11-2-77	ISSUED FOR USE (REDRAWN)	K.McA	[illegible]	[illegible]
A	11-28-77	ISSUED FOR INFORMATION ONLY	K.McA	[illegible]	[illegible]

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: HPCS DISCHARGE TO VESSEL

DWG NO: HPCS-101-2 REV 1

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. HPCS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: HIGH PRESSURE CORE SPRAY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HPCS-101	12HPCS(1)-18	VLV TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-18PR	PWS	B-K-2											NOTE 1
HPCS-101	12HPCS(1)-19	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-19LDO	EL SEAM	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-19LDI	EL SEAM	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-19/3/4 PI(1)-4S	PRESSURE TAP	B-P				X			QCS&I-002				
HPCS-101	10HPCS(1)-1LUO	EL SEAM	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	10HPCS(1)-1LUI	EL SEAM	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	10HPCS(1)-1	EL TO PIPE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL.: BASELINE

SYSTEM OR COMPONENT NO. HPCS(1)-4

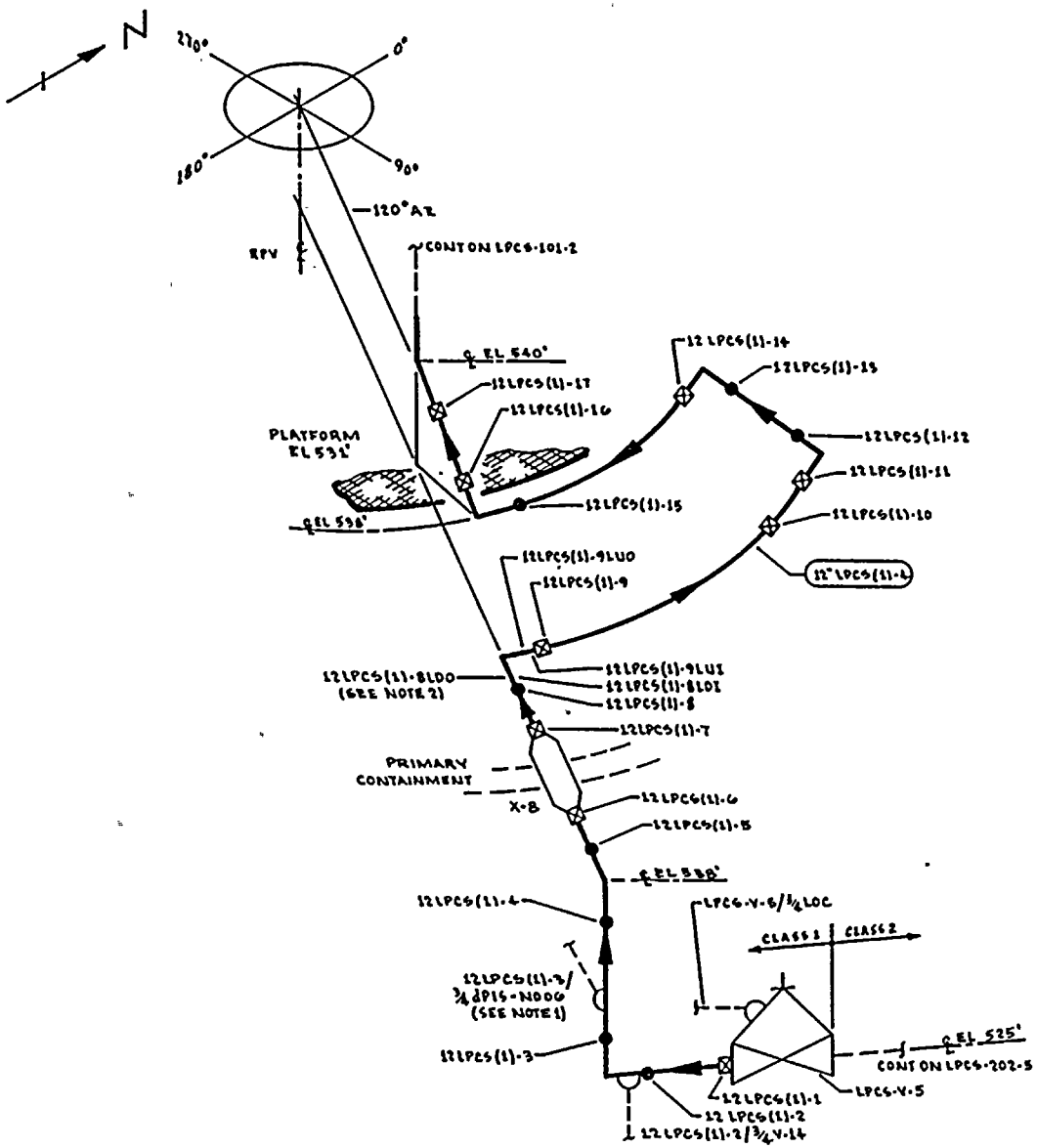
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: HIGH PRESSURE CORE SPRAY

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HPCS-101	10HPCS(1)-2	PIPE TO SE EXT.	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-22			SEE RPV-105, NOZZLE N16
HPCS-101	10HPCS(1)-3	S.E. EXT. TO S.E.	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-106			SEE RPV-105, NOZZLE N16
HPCS-101	10HPCS(1)-4	S.E. TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			SEE RPV-105, NOZZLE N16



NOTES:

1. EXTEND VISUAL LEAKAGE EXAM THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. PIPING SYSTEM 12" LPCS(1)-4 IS CONSTRUCTED OF SEAMLESS SCH 80 PIPE & FITTINGS EXCEPT FOR THE SR ELL ASSOCIATED WITH WELDS 12LPCS(1)-8 & 9 WHICH IS WELDED SCH 100. USE CAL BLOCKS SHOWN BELOW ACCORDINGLY.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

LPCS-756-19.21 REV 2
LPCS-756-22.24 REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" LPCS(1)-4	12	80	0.688	SA 106 GR B	CS	UT-17
12" LPCS(1)-4	12	100	0.844	SA 106 GR B	CS	UT-16

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE (REDRAWN)	KMcA	DWK	[illegible]
A	11-13-78	ISSUED FOR INFORMATION ONLY	KMcA	DWK	DWK

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR GA KUGLER | DRAWN: K McA | DATE: 10-28-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
LPCS DISCHARGE TO VESSEL

DWG NO. LPCS-101-1 | REV 0

NHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. LPCS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: LOW PRESSURE CORE SPRAY REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
LPCS-101	LPCS-V-5	VALVE BODY	B-M-2					X		QCS&I-002				
LPCS-101	LPCS-V-5	VALVE BOLTING	B-G-2			X				QCS&I-002				
LPCS-101	LPCS-V-5/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
LPCS-101	12LPCS(1)-1	VLV TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-2	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-2/ 3/4 V-14	TEST CONN	B-P				X			QCS&I-002				
LPCS-101	12LPCS(1)-3	EL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-3/ 3/4 V-712	PRESSURE TAP	B-P				X			QCS&I-002				
LPCS-101	12LPCS(1)-4	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. LPCS(1)-4

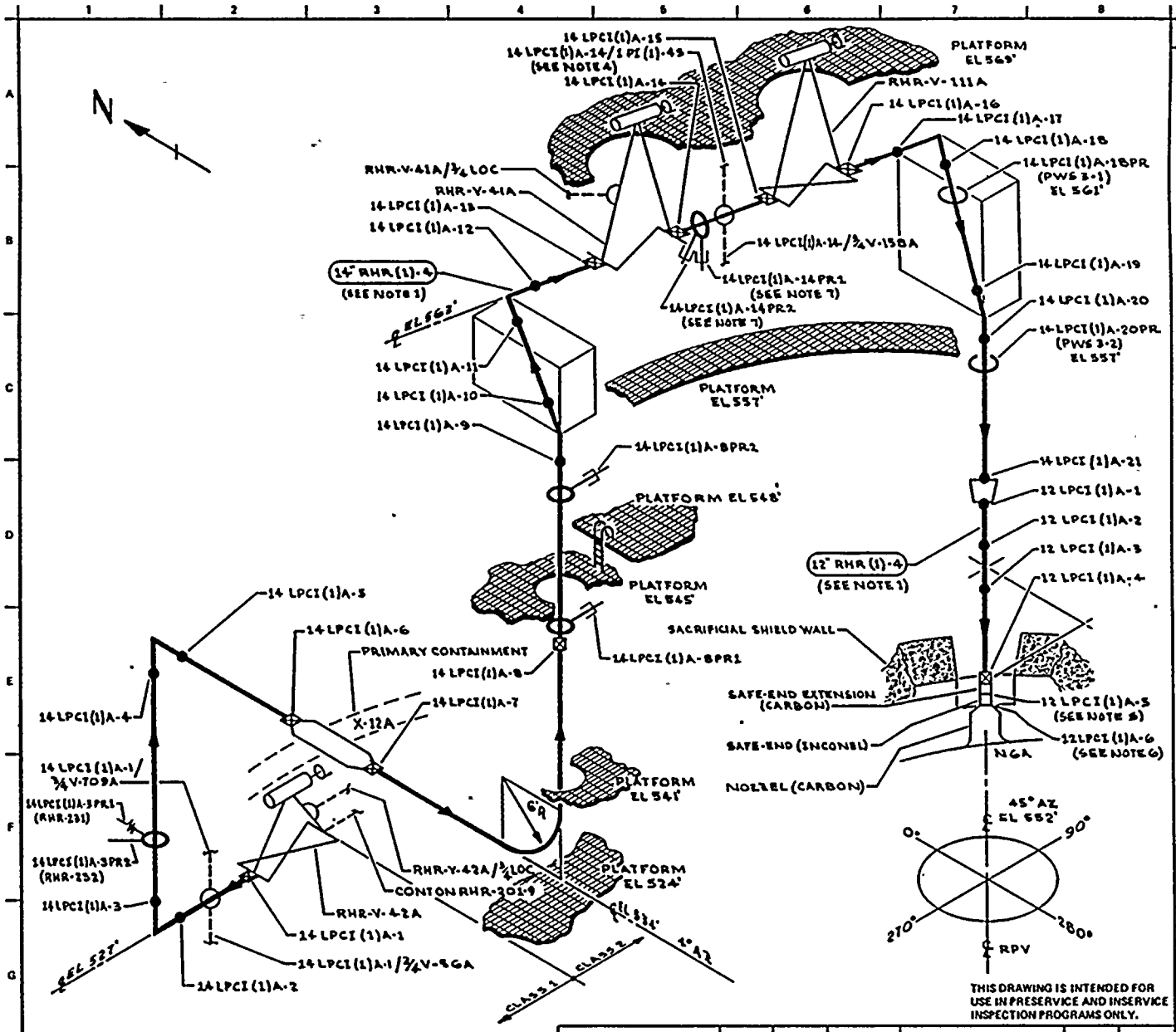
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: LOW PRESSURE CORE SPRAY

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
LPCS-101	12LPCS(1)-5	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
LPCS-101	12LPCS(1)-6	PIPE TO PEN	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
LPCS-101	12LPCS(1)-7	PEN TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
LPCS-101	12LPCS(1)-8	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
LPCS-101	12LPCS(1)-8LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
LPCS-101	12LPCS(1)-8LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
LPCS-101	12LPCS(1)-9LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
LPCS-101	12LPCS(1)-9LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			



NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELDS AT NOZZEL N6A REQUIRES TEMPORARY SCAFFOLDING.
3. PWS 18 PR IS WITHIN ~4" OF WELD 14 LPCI (1)-18
4. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-74b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. DISSIMILAR METAL WELD, CS TO ENCO, - USE CAL BLOCK UT-106.
6. DISSIMILAR METAL WELD, INCO TO CS, - USE CAL BLOCK UT-102.
7. ACCESS TO WELD 14 LPCI (1)A-14 REQUIRES REMOVAL OF 14 LPCI(1)A-14PR1 & 14 LPCI (1)A-14PR2.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-851-20	REV 2
RHR-851-21,24	REV 1
RHR-851-20H	REV 0

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-4	14	80	0.750	SA 106 GR B	CS	UT-14
12" RHR (1)-4	12	100	0.844	SA 106 GR B	CS	UT-16

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 8)			
0	11 7 78	ISSUED FOR USE			
A	3-15-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

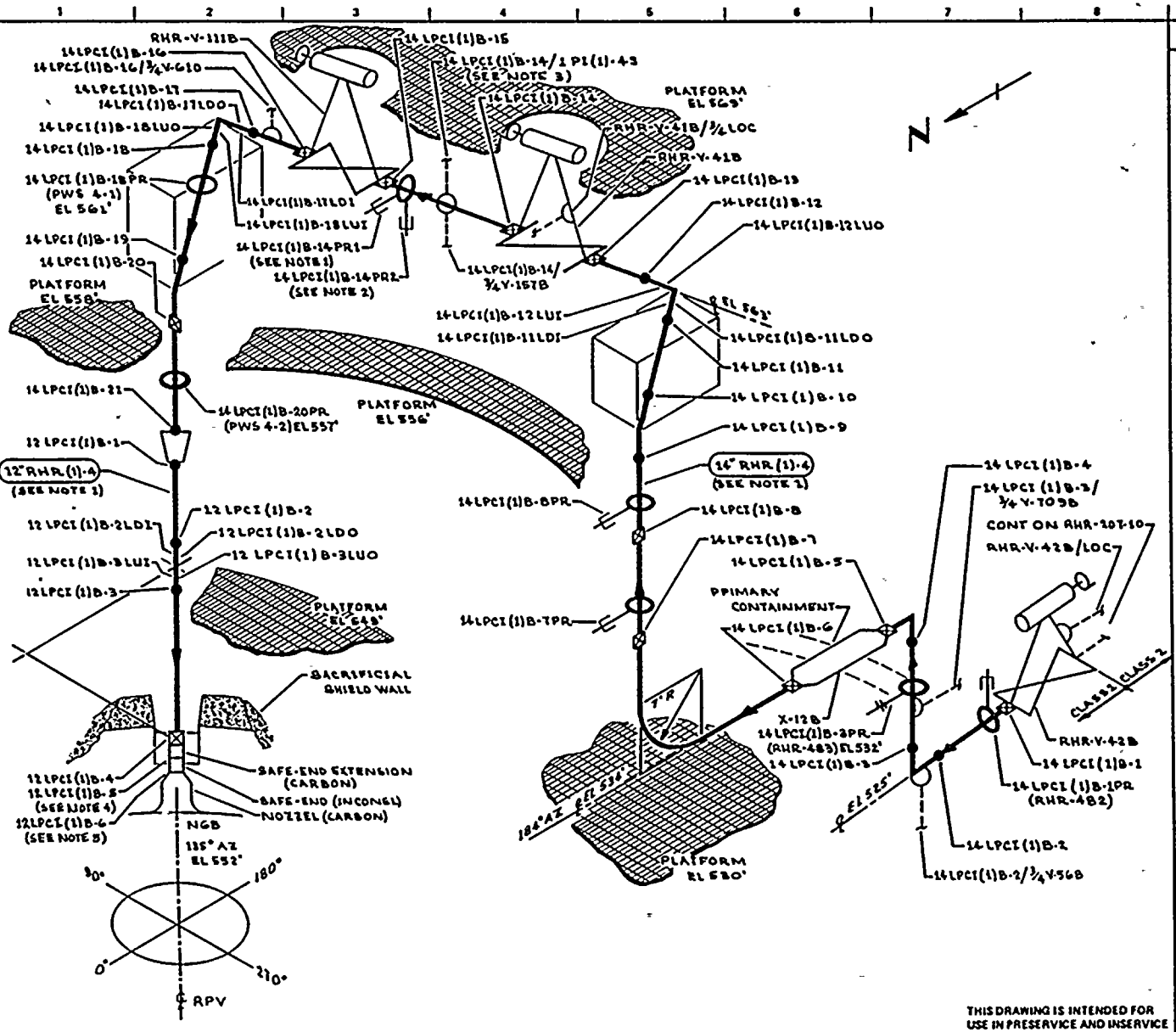
ENGR: D PORTER | DRAWN: K-M-A | DATE: 12-1-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "A"

DWG NO: RHR-101 | REV 1



NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELD 14 LPCI(1)B-15 REQUIRES REMOVAL OF 14 LPCI(1)B-14 PR1 & 2
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-39b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. DISSIMILAR METAL WELD, CS TO INCO, USE CAL BLOCK UT-106.
5. DISSIMILAR METAL WELD, INCO TO CS, USE CAL BLOCK UT-102.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-899-38	REV 2
RHR-899-39-44	REV 1
RHR-899-38H	REV 0

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-4	14	80	0.750	SA-106 GR B	CS	UT-14
12" RHR (1)-4	12	100	0.844	SA-106 GR B	CS	UT-16

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 4)	KMcA		
0	11-27-78	ISSUED FOR USE	KMcA		
A	8-15-78	ISSUED FOR INFORMATION ONLY	KMcA		

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: K.McA | DATE: 12-9-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "B"

DWG NO: RHR-102 | REV 1

UMP- 2 PROGRAM PLAN AND SCHEDULE PAGE 3 of 7

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RIIR(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RIIR/LPCI LOOP "B" REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-102	14LPCI(1)B-10	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	14LPCI(1)B-11	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	14LPCI(1)B-11LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	14LPCI(1)B-11LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	14LPCI(1)B-12LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	14LPCI(1)B-12LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	14LPCI(1)B-12	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	14LPCI(1)B-13	PIPE TO VLV	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 7

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR/LPCI LOOP "B" | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-102	RHR-V-41B	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-102	RHR-V-41B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-102	RHR-V-41B/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-14	VLV TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-14/ 1PI(1)-4S	PRESS. TAP	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-14/ 3/4V-157B	TEST CONN	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-14PR1	SNUBBER	B-K-2						X	QCS&I-002				
RHR-102	14LPCI(1)B-14PR2	SNUBBER	B-K-2						X	QCS&I-002				
RHR-102	14LPCI(1)B-15	PIPE TO VLV	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	RHR-V-111B	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-102	RHR-V-111B	VALVE BOLTING	B-G-2			X				QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 7

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR/LPCI LOOP "B" | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-102	14LPCI(1)B-16	VALVE TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-16/ 3/4V-610	TEST CONN	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-17	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-17LDI	EL SEAM	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-17LDO	EL SEAM	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-18LUI	EL SEAM	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-18LUO	EL SEAM	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-18	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR(1)-4

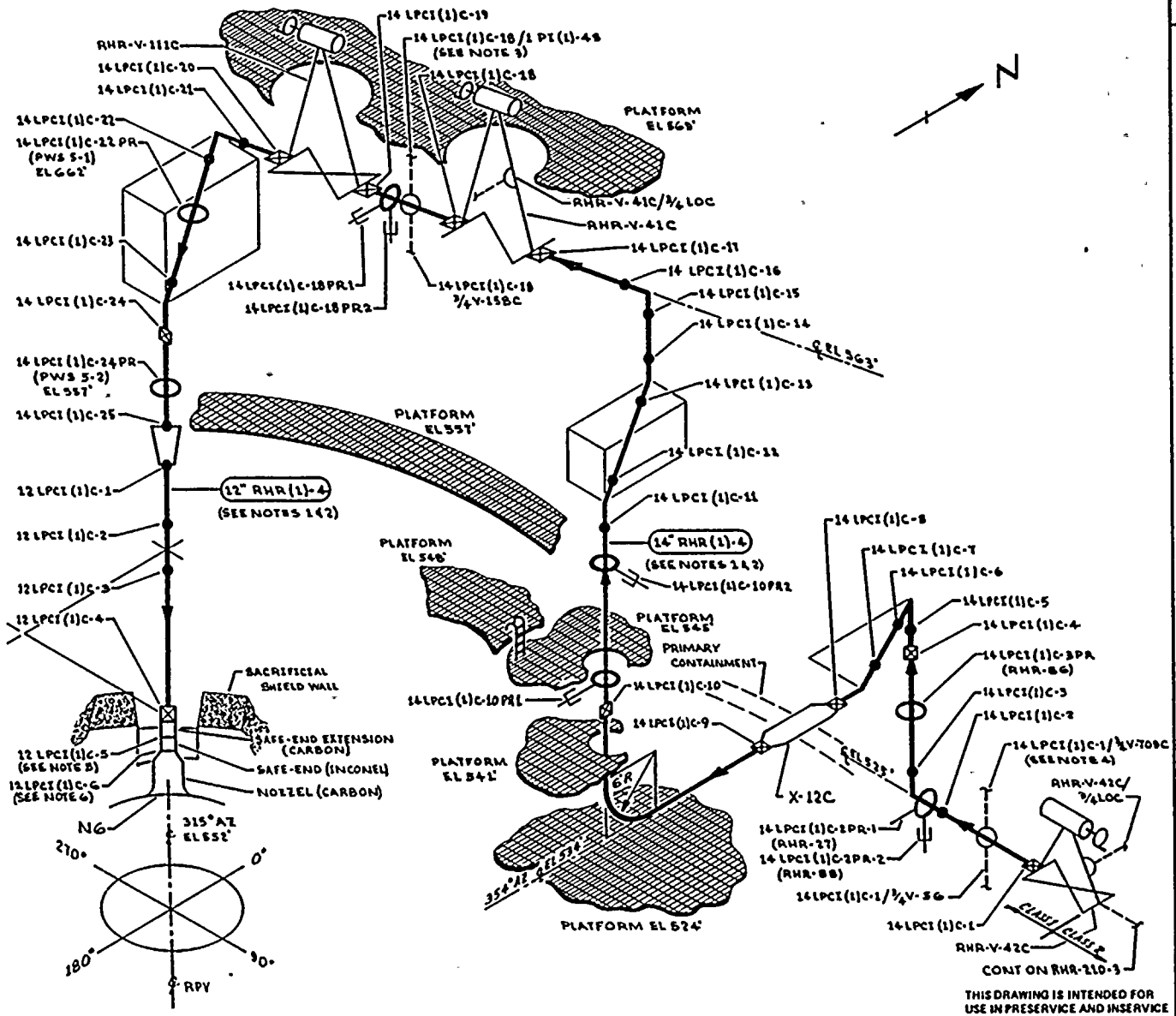
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RIIR/LPCI LOOP "B"

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-102	14LPCI(1)B-18PR	PWS												NOTE 1
RIIR-102	14LPCI(1)B-19	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	14LPCI(1)B-20	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	14LPCI(1)B-20PR	PWS												NOTE 1
RIIR-102	14LPCI(1)B-21	PIPE TO REDUCER	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RIIR-102	12LPCI(1)B-1	REDUCER TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RIIR-102	12LPCI(1)B-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RIIR-102	12LPCI(1)B-2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			



NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELDS 12 LPCI(1)C-1 THROUGH 12 LPCI(1)C-6 & 14 LPCI(1)C-24 REQUIRES TEMPORARY SCAFFOLDING.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT (X-39C) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND VISUAL LEAKAGE EXAM THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. DISSIMILAR METAL WELD, CS TO INCO,- USE CAL BLOCK UT-106.
6. DISSIMILAR METAL WELD, INCO TO CS,- USE CAL BLOCK UT-102.
7. ACCESS TO WELD 14 LPCI(1)C-18 REQUIRES REMOVAL OF 14 LPCI(1)C-18PR1 & 14 LPCI(1)C-18PR2.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-897-19	REV 3
RHR-897-20-24	REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-4	14	80	0.750	SA-106 GR B	CS	UT-14
12" RHR (1)-4	12	100	0.844	SA-106 GR B	CS	UT-16

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 5)	KMcA	KMcA	DLH 1/19
0	11-27-78	ISSUED FOR USE	KMcA	DLH	DLH
A	3-15-78	ISSUED FOR INFORMATION ONLY	KMcA	[illegible]	DLH

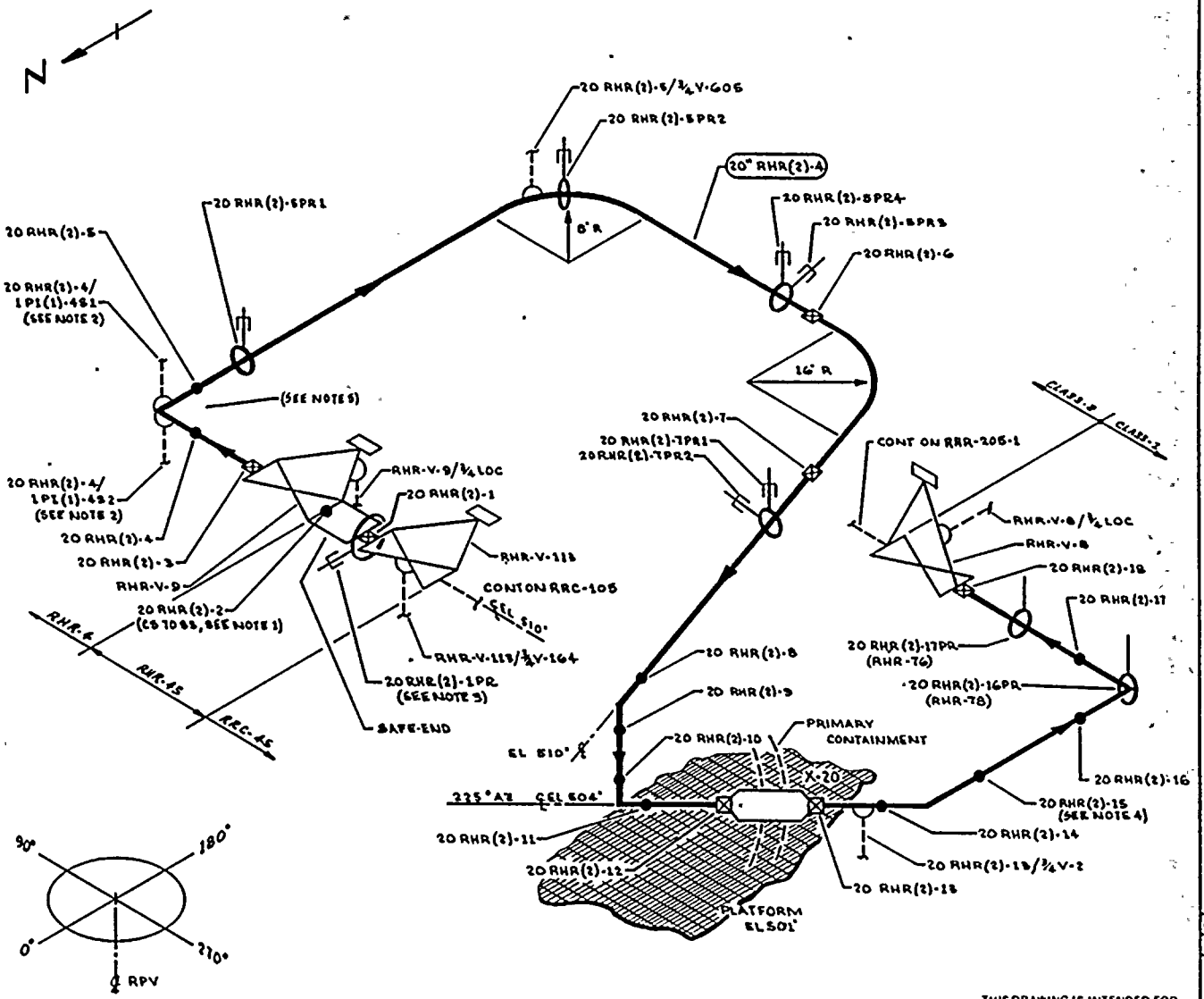
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D PORTER | DRAWN: K. McA | DATE: 12-9-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "C"

DWG NO: RHR-102 | REV 1



NOTES:

1. DISSIMILAR METAL WELD, CS TO SS USE CAL BLOCK UT-9
2. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT (X-37 & F) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. ACCESS TO WELDS 20RHR(2)-1 & 20 RHR(2)-2 REQUIRES REMOVAL OF 20RHR(2)-1PR.
4. DISTANCE BETWEEN WELDS 20RHR(2)-15 & 20 RHR(2)-16 IS 4".
5. AN ELECTRICAL JUNCTION BOX IS BELOW PIPE WITH 3" TO 8" CLEARANCE.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-874-1.3 REV 4
RHR-874-6 REV 4

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY..

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR(2)-4	20	.80	1.031	SA 106 GR B	CS	UT-10
20" RHR(2)-45	20	80	1.031	SA 376 TP 304	SS	UT-9

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMcA	DJP	
A	2-15-78	ISSUED FOR INFORMATION ONLY	KMcA	DJP	DJP

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: KMcA | DATE: 12-13-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR SHUTDOWN COOLING SUCTION

DWG NO. RHR-104 | REV 0

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 5

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(2)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR SHUTDOWN COOLING SUCTION | REVISION: 0

DIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-104	RHR-V-113	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-104	RHR-V-113	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-104	20RHR(2)-1/ 3/4-164	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-104	20RHR(2)-1	VLV TO SE	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RHR-104	20RHR(2)-1PR	SHUBBER	B-K-2					X		QCS&I-002				
RHR-104	20RHR(2)-2	SE TO PIPE	B-F	X						UTP-10	UT-9			DISSIMILAR METAL, SS TO CS
					X					PTP-1				
							X			QCS&I-002				
RHR-104	RHR-V-9	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-104	RHR-V-9	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-104	RHR-V-9/ 3/4 LOC	STEM LEAKOFF					X			QCS&I-002				
RHR-104	20RHR(2)-3	VLV TO PIPE	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RHR-104	20RHR(2)-4	PIPE TO EL	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				

WIP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 2 of 5

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR(2)-4

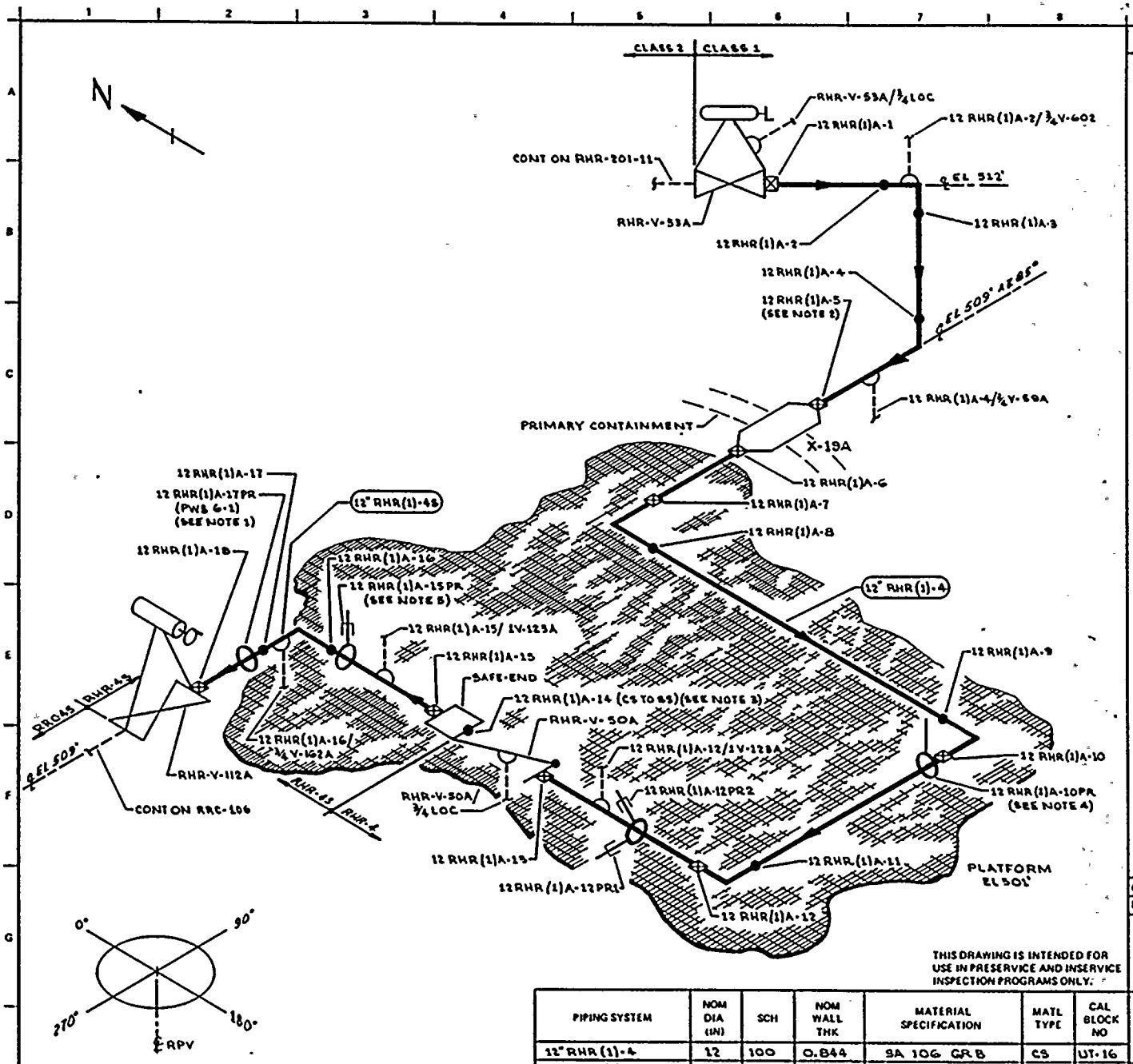
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RIIR SHUTDOWN COOLING SUCTION

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-104	20RIIR(2)-4/ 1PI(1)-4S-1	PRESS. TAP	B-P				X			QCS&I-002				
RIIR-104	20RIIR(2)-4/ 1PI(1)-4S-2	PRESS. TAP	B-P				X			QCS&I-002				
RIIR-104	20RIIR(2)-5	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-10			
RIIR-104	20RIIR(2)-5PR1	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-5/ 3/4V605	TEST CONN	B-P				X			QCS&I-002				
RIIR-104	20RIIR(2)-5PR2	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-5PR3	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-5PR4	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-6	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-10			
RIIR-104	20RIIR(2)-7	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-10			



NOTES:

1. ACCESS TO WELD 12 RHR(1)A-18 REQUIRES REMOVAL OF 12 RHR(1)A-17PR.
2. WELD 12 RHR(1)A-5 IS FITTING TO FITTING
3. DISSIMILAR METAL WELD, CS TO SS, USE CAL BLOCK
4. ACCESS TO WELD 12 RHR(1)A-10 REQUIRES REMOVAL OF 12 RHR(1)A-10PR
5. ACCESS TO WELD 12 RHR(1)A-16 REQUIRES REMOVAL OF 12 RHR(1)A-15PR.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-851-14	REV 1
RHR-851-15,16	REV 3
RHR-851-17	REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RHR(1)-4	12	100	0.844	SA 106 GR B	CS	UT-16
12" RHR(1)-4S	12	80	0.688	SA 312 GR B	SS	UT-19

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-22-78	ISSUED FOR USE	KMcA	DP	
A	3-15-78	ISSUED FOR INFORMATION ONLY	KMcA	DP	DP

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: K McA | DATE: 12-14-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:

SHUTDOWN COOLING RETURN LOOP "A"

DWG NO RHR-105 | REV 0

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL.: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-4, 4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "A"

REVISION: 0

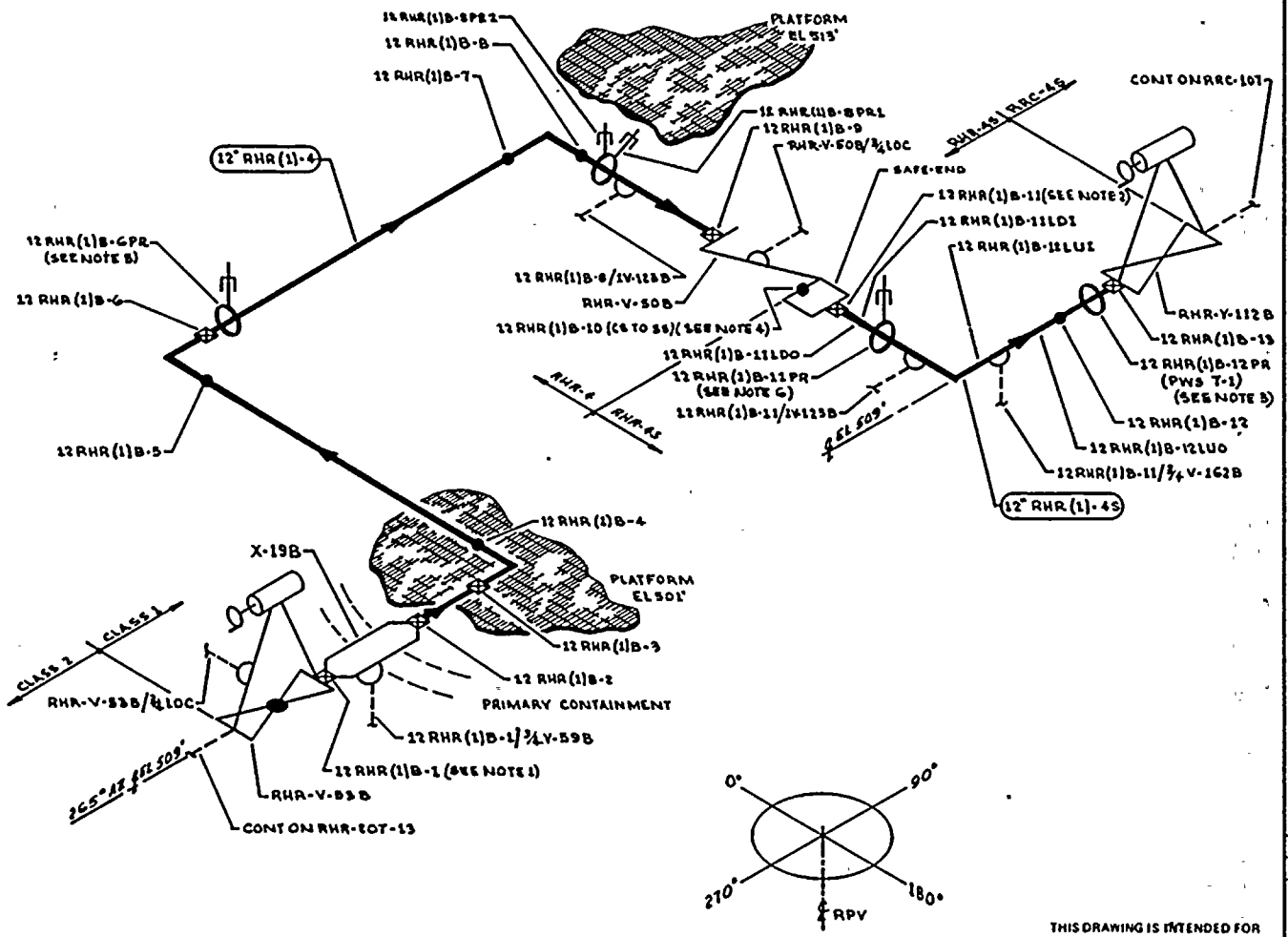
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-105	12RHR(1)A-12PR1	SNUBBER	B-K-2						X	QCS&I-002				
RHR-105	12RHR(1)A-12PR2	SNUBBER	B-K-2						X	QCS&I-002				
RHR-105	12RHR(1)A-12/1V-123A	BYPASS CONN	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-13	PIPE TO VLV	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	RHR-V-50A	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-105	RHR-V-50A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-105	RHR-V-50A/3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-14	VLV TO SE	B-F	X						UTP-10	UT-19			DISSIMILAR METAL, CS-SS
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-15	SE TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-15/1V-123A	BYPASS CONN	B-P				X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 4

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4, 4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "A" REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-105	12RHR(1)A-15PR	SNUBBER	B-K-2						X	QCS&I-002				
RHR-105	12RHR(1)A-16	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)A-16/3/4V-162A	TEST CONN	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-17	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)A-17PR	PWS												NOTE 1
RHR-105	12RHR(1)A-18	PIPE TO VLV	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	RHR-V-112A	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-105	RHR-V-112A	VALVE BOLTING	B-G-2			X				QCS&I-002				



NOTES:

1. WELD Nº 12 RHR(1)B-1 IS FITTING TO FITTING.
2. WELD Nº 12 RHR(1)B-11 IS FITTING TO FITTING.
3. ACCESS TO WELD Nº 12 RHR(1)B-13 REQUIRES REMOVAL OF 12 RHR(1)B-12PR
4. DISSIMILAR METAL WELD, C6 TO G5, - USE CAL BLOCK UT-19
5. ACCESS TO WELD Nº 12 RHR(1)B-6 REQUIRES REMOVAL OF 12 RHR(1)B-6PR
6. ACCESS TO WELD Nº 12 RHR(1)B-11 REQUIRES REMOVAL OF 12 RHR(1)B-11PR

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-899-46.47 REV 2
RHR-899-48 REV 1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH #	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12"RHR(1)-4	12	100	0.844	SA 106 GR B	CS	UT-16
12"RHR(1)-45	12	80	0.688	SA 312 TP 304	SS	UT-19

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-21-78	ISSUED FOR USE	K.M.L	[illegible]	[illegible]
A	8-15-78	ISSUED FOR INFORMATION ONLY	K.M.L	[illegible]	[illegible]

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D PORTER	DRAWN: K.M.L.A.	DATE: 12-15-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
SHUTDOWN COOLING RETURN LOOP "B"

DWG NO: RHR-106 REV 0

WRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR(1)-4, 4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "B"

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-106	RIIR-V-50B/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RIIR-106	12RIIR(1)B-10	VLV TO SE	B-F	X						UTP-10	UT-19			DISSIMILAR METAL, CS-SS
					X					PTP-1				
							X			QCS&I-002				
RIIR-106	12RIIR(1)B-11	SE TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RIIR-106	12RIIR(1)B-11LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RIIR-106	12RIIR(1)B-11LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RIIR-106	12RIIR(1)B-11PR	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-106	12RIIR(1)B-11/ 1V-123B	BYPASS CONN	B-P				X			QCS&I-002				
RIIR-106	12RIIR(1)B-11/ 3/4V-162B	TEST CONN	B-P				X			QCS&I-002				
RIIR-106	12RIIR(1)B-12LUI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 4

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4, 4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "B" REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-106	12RHR(1)B-12LUO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-12	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-12PR	PWS												NOTE 1
RHR-106	12RHR(1)B-13	PIPE TO VLV	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	RHR-V-112B	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-106	RHR-V-112B	VALVE BOLTING	B-G-2			X				QCS&I-002				

WNP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A

REVISION: 0

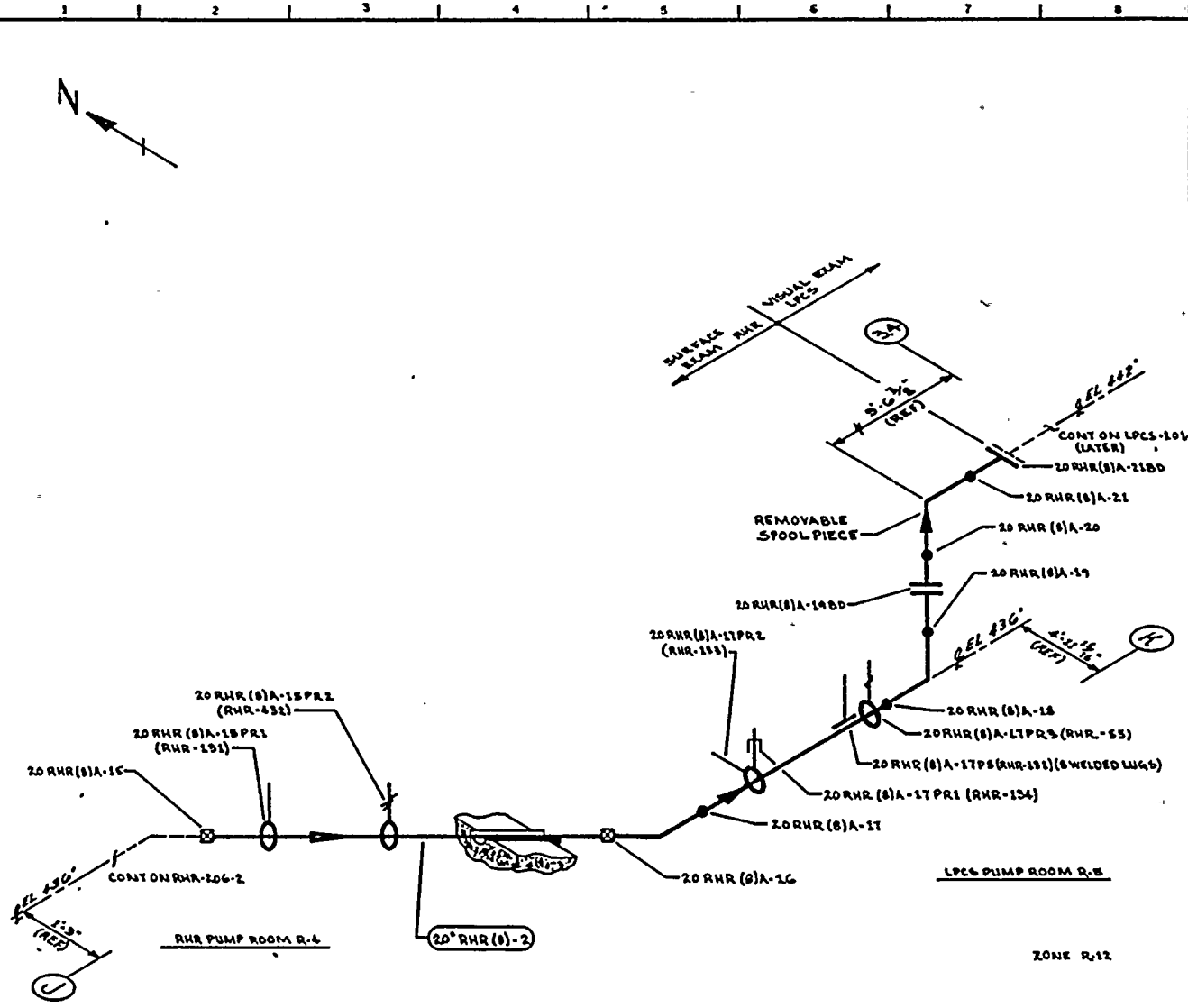
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A-37	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-37/1½ TE-N004A	INST. CONN.	IWC-2510				X			QCS&I-002				
RHR-201	20 RHR(1) A-1	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	20 RHR(1) A-2	PIPE TO NOZZLE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(7) A-1	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(7) A-1 3/4 V-144A	TEST CONN.	IWC-2510				X			QCS&I-002				
RHR-201	6 RHR(7) A-2	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(7) A-3	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 0

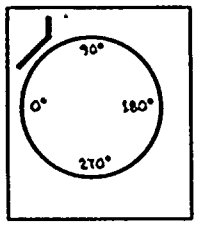
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(11) A-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A5PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(11) A-5PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(11) A-5PS/(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(11) A-6	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	RHR-V-48A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-201	18 RHR(11) A-7	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-8	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-9PS/(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(11) A-10	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				



NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RHR-881-8.13 REV 1
RHR-881-8.13H REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR (S)-2	20	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-28-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: G.A. KUGLER | DRAWN: V.M.C.A. | DATE: 5-22-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR-LPCS CROSSTIE

DWG NO: RHR-206-S | REV 0

UHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. 20" RHR(8)-2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR-LPCS CROSSTIE

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-206	20RHR(8)A-13	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-13 PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-14	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-15	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-15 PR1	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-206	20RHR(8)A-15 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-16	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-17	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-17 PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-17 PR2	RIGID HANGER	C-E-2					X		QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. 20" RHR(8)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR-LPCS CROSSTIE | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-206	20RHR(8)A-17 PS/(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-206	20RHR(8)A-17PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-18	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-206	20RHR(8)A-19	EL TO FLANGE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-206	20RHR(8)A-19BD	FLANGE BOLTING	C-D			X				QCS&I-002				24 1¼" FULL THRD. STUDS W/NUTS
RHR-206	20RHR(8)A-20	FLANGE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-206	20RHR(8)A-21	EL TO FLANGE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-206	20RHR(8)A-21BD	FLANGE BOLTING	C-D			X				QCS&I-002				24 1¼" FULL THRD. STUDS W/NUTS

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 23 of 29

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B

REVISION: 0

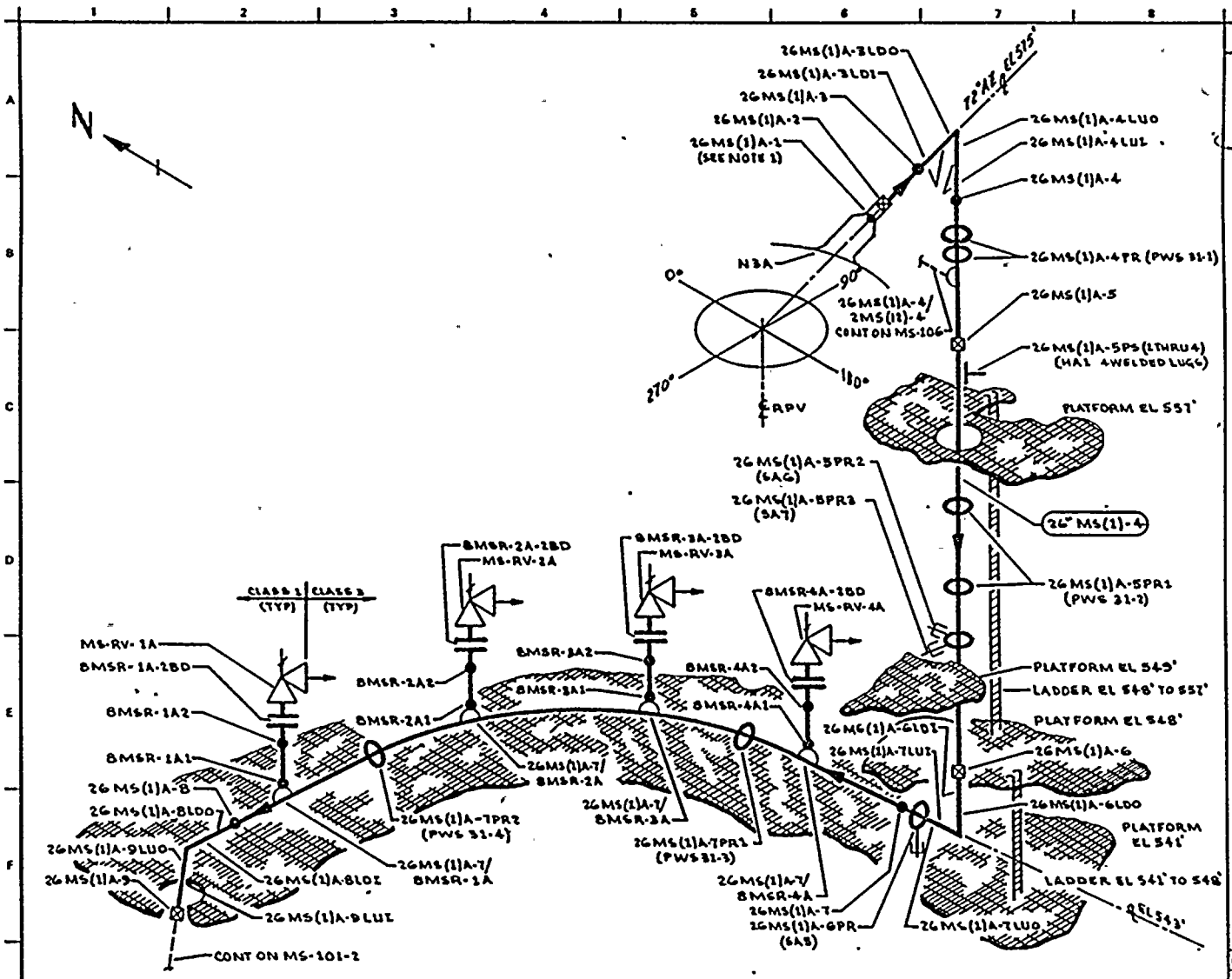
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-83	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-84	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-85	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-85/12 RHR (1)-2	BRANCH CONN	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-86	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-1	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-3/4V-160B	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-207	12 RHR(1) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

MNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 24 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	12 RHR(1) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-6	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-1	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-1PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	16 RHR(5) B-1PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	17 RHR(5) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-5PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	16 RHR(5) B-5/3V-63B	FLUSH CONN	IWC-2510				X			QCS&I-002				



NOTES:

1. WELD 26MS(1)A-1 UTILIZES CAL BLOCK UT-104.
2. ACCESS TO WELDS 26MS(1)A-1 THRU 26MS(1)A-5 REQUIRES TEMPORARY SCAFFOLDING.
3. ACCESS TO WELD 26MS(1)A-7 REQUIRES REMOVAL OF 26MS(1)A-6PR

REFERENCES:

GENERAL ELECTRIC DRAWINGS:

761E992	131C8031
131C7731	131C8030
131C8403	131C8046
131C8501	

CBI NUCLEAR CO.

55, REV 3, N3 NOZZLE

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26" MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4
8" MSR-A	8	160	0.906	SA 106 GR B	CS	UT-24

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-78	CAL BLOCK REFERENCE CHANGED (FOR 8" PIPING)	KMcA	DCJ	DEB
0	11-27-78	ISSUED FOR USE	KMcA	DCJ	DEB
A	4-21-78	ISSUED FOR INFORMATION ONLY	KMcA	DCJ	DEB

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: K. McA | DATE: 1-10-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

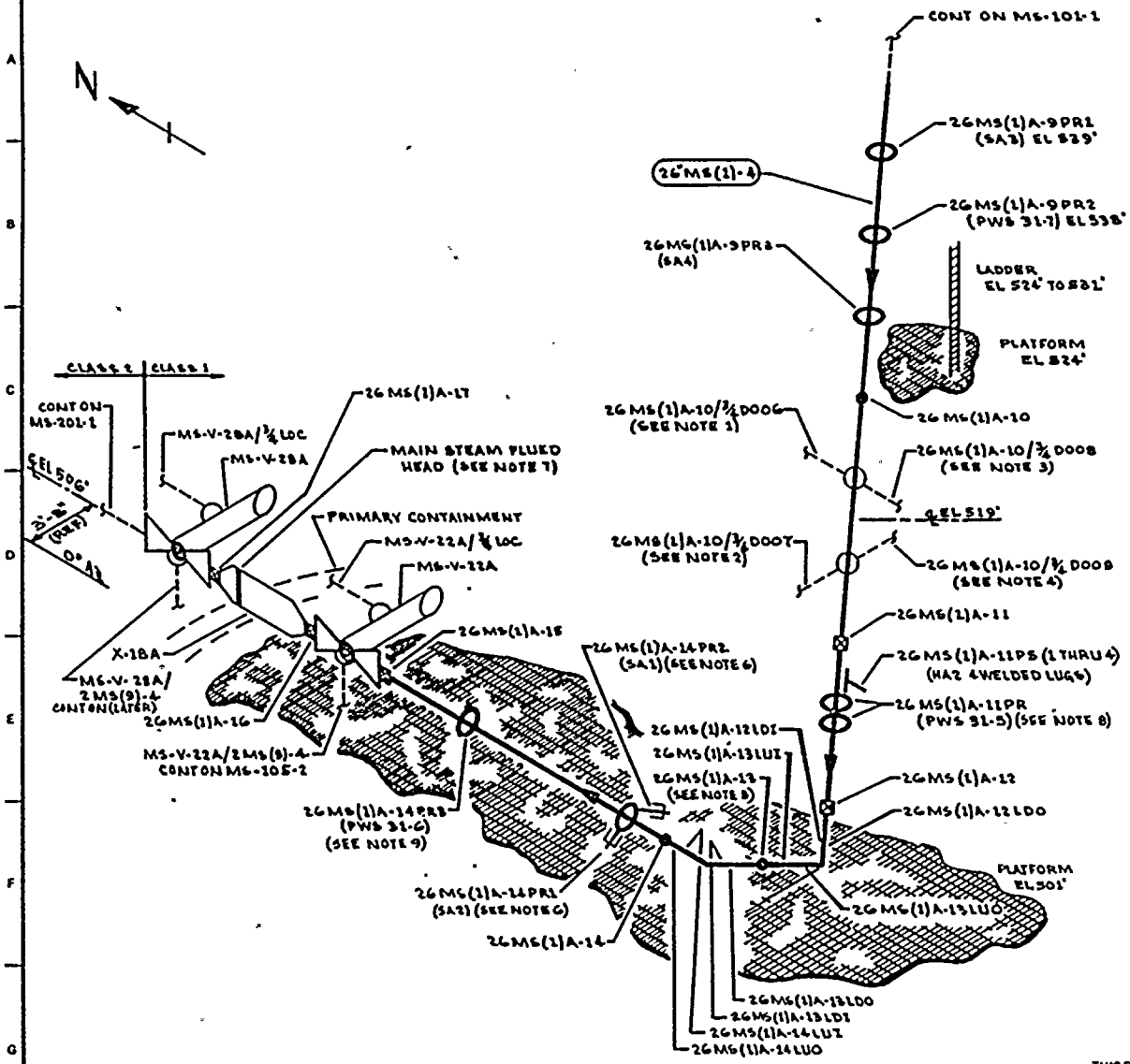
RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-101-1 | REV 1



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-69a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-69b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-42a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-42b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. WELD 26MS(1)A-13 IS FITTING TO FITTING.
6. ACCESS TO WELD 26MS(1)A-14 REQUIRES REMOVAL OF 26MS(1)A-14PR1 & 26MS(1)A-14PR2
7. FOR EXAM OF MAIN STEAM FLUED HEAD SEE DWG MS-101-3.
8. ACCESS TO WELD 26MS(1)A-12 IS RESTRICTED BY PWS 31-5.
9. ACCESS TO WELD 26MS(1)A-15 IS RESTRICTED BY PWS 31-6.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 992	131 C 8031
131 C 7731	131 C 8030
131 C 8403	131 C 8046
131 C 8501	

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26" MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMA	DCT	ACP
A	4-11-78	ISSUED FOR INFORMATION ONLY	KMA	DCT	ACP

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: K.M.A. | DATE: 1-10-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-101-2 | REV 0

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	MS-RV-2A	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MR-RV-2A	VALVE BODY	B-M-2					X		QCS&I-002				
MS-101	26MS(1)A-7PR2	PWS												NOTE 1
MS-101	26MS(1)A-7/ 8MSR-1A	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	8MSR-1A1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-101	8MSR-1A2	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-101	8MSR-1A-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MS-RV-1A	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MS-RV-1A	VALVE BODY	B-M-2					X		QCS&I-002				
MS-101	26MS(1)A-8	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-8LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			

UNP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 6 of 10

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

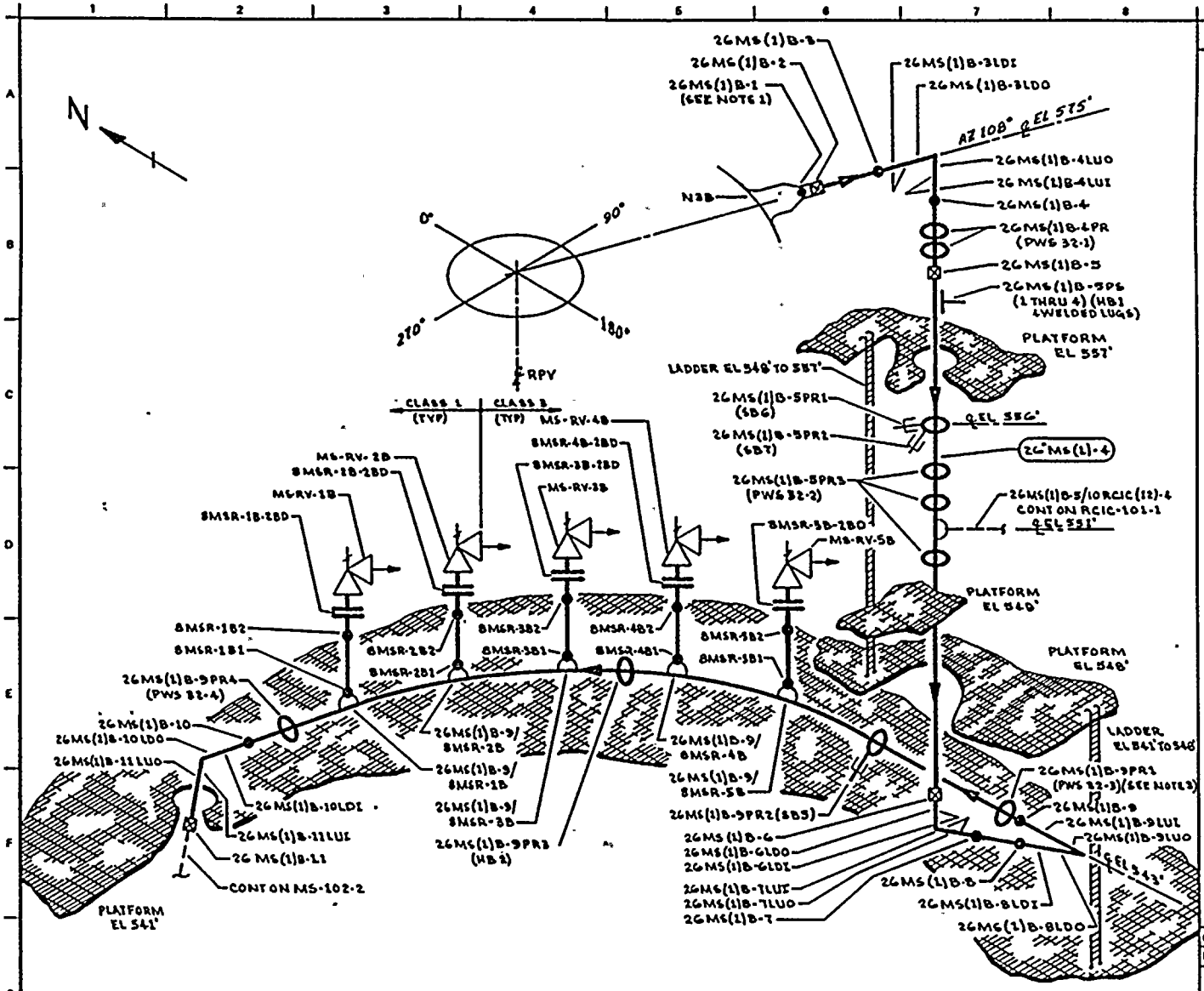
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-8LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-9LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-9LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-9	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-9PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-101	26MS(1)A-9PR2	PWS												NOTE 1
MS-101	26MS(1)A-9PR3	SNUBBER	B-K-2						X	QCS&I-002				
MS-101	26MS(1)A-10	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-10/ 3/4 D006	INSTR CONN	B-P				X			QCS&I-002				
MS-101	26MS(1)A-10/ 3/4 D008	INSTR CONN	B-P				X			QCS&I-002				



NOTES:

1. WELD 26MS(1)B-1 UTILIZES CAL BLOCK UT-104.
2. ACCESS TO WELDS 26MS(1)B-1 THRU 26MS(1)B-5 REQUIRES TEMPORARY SCAFFOLDING.
3. ACCESS TO WELD 26MS(1)B-9 REQUIRES REMOVAL OF 26MS(1)B-9PR1.

REFERENCES:

GENERAL ELECTRIC DRAWINGS:

761 E 992	131 C 8028
131 C 7732	131 C 8029
131 C 8403	151 C 8030
131 C 8501	131 C 8047

CBI NUCLEAR CO.
55, REV 3, N3 NOZZLE

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4
8"MSR-B	8	160	0.906	SA 106 GR B	CS	UT-34

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED (FOR 8" PIPING)	KM&A	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KM&A	MR	RAS
A	4-21-78	ISSUED FOR INFORMATION ONLY	KM&A	DCJ	DAP

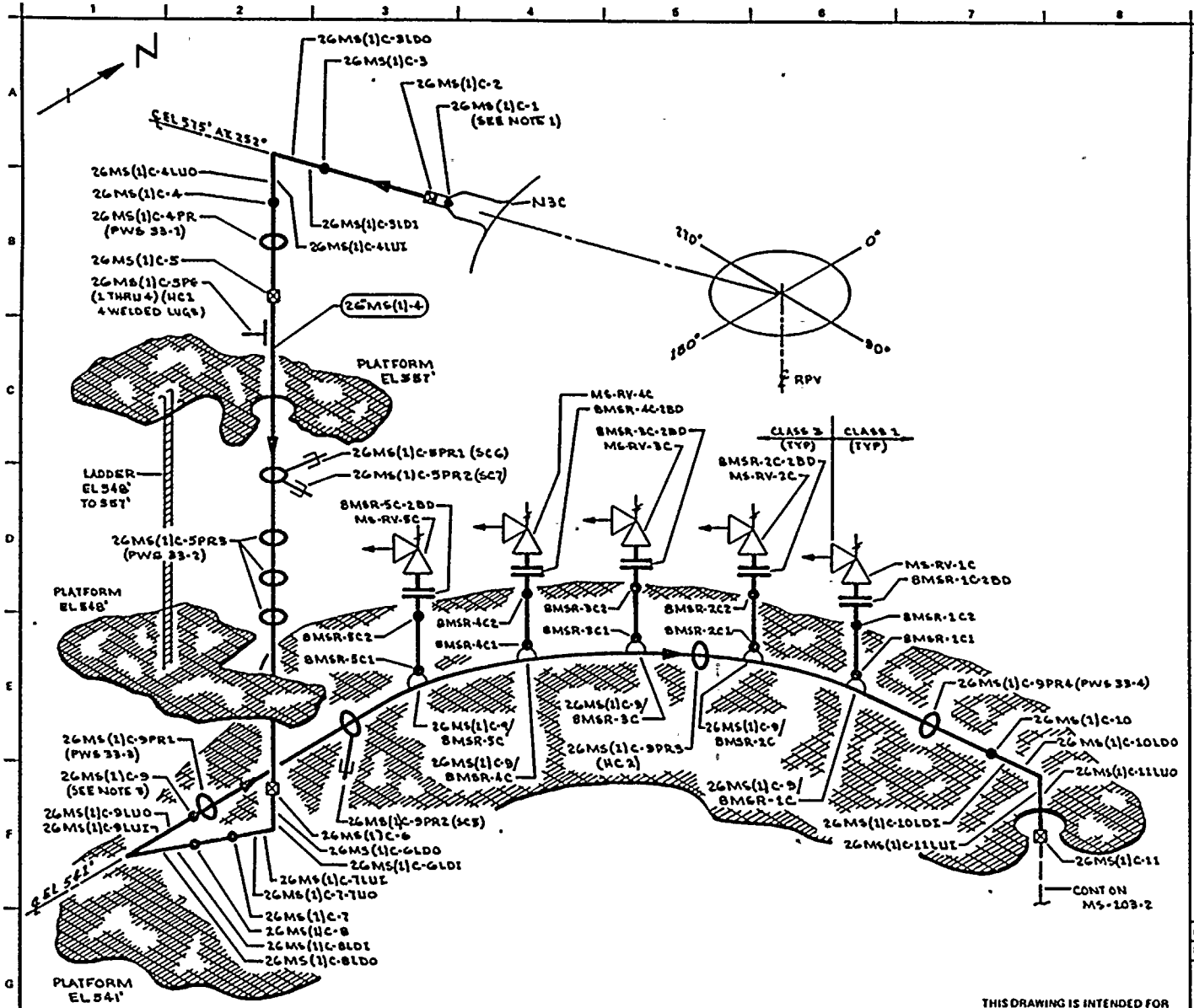
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D TIMMINS | DRAWN: K.M&A. | DATE: 1-16-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE B

DWG NO: MS-102-1 | REV 1



NOTES:

1. WELD 26MS(1)C-1 UTILIZES CAL BLOCK UT-104.
2. ACCESS TO WELDS 26MS(1)C-1 THRU 26MS(1)C-8 REQUIRES TEMPORARY SCAFFOLDING.
3. ACCESS TO WELD 26MS(1)C-9 REQUIRES REMOVAL OF 26MS(1)C-9PR1.

REFERENCES:

GENERAL ELECTRIC DRAWINGS:

761 E 992	131 C 8403
131 C 7733	131 C 8028
131 C 8047	131 C 8029
131 C 8501	131 C 8030

CBI NUCLEAR CO.

88, REV 3, N3 NOZZLE

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4
BMSR-C	8	160	0.906	SA 106 GR B	CS	UT-24

NO	DATE	REVISION	BY	CHKD	APPVD
1	5-10-79	CAL BLOCK REFERENCE CHANGED (FOR 8" PIPING)	KMcA	[illegible]	DB
0	11-27-78	ISSUED FOR USE	KMcA	DEJ	DB
A	4-21-78	ISSUED FOR INFORMATION ONLY	KMcA	DEJ	DB

QUALITY CLASS: 1	ASME CODE CLASS: 1		
ENGR: D TIMMINS	DRAWN: K McA	DATE: 1-18-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE C

DWG NO: MS-103-1 REV 1

WIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS-(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE C

REVISION: 0

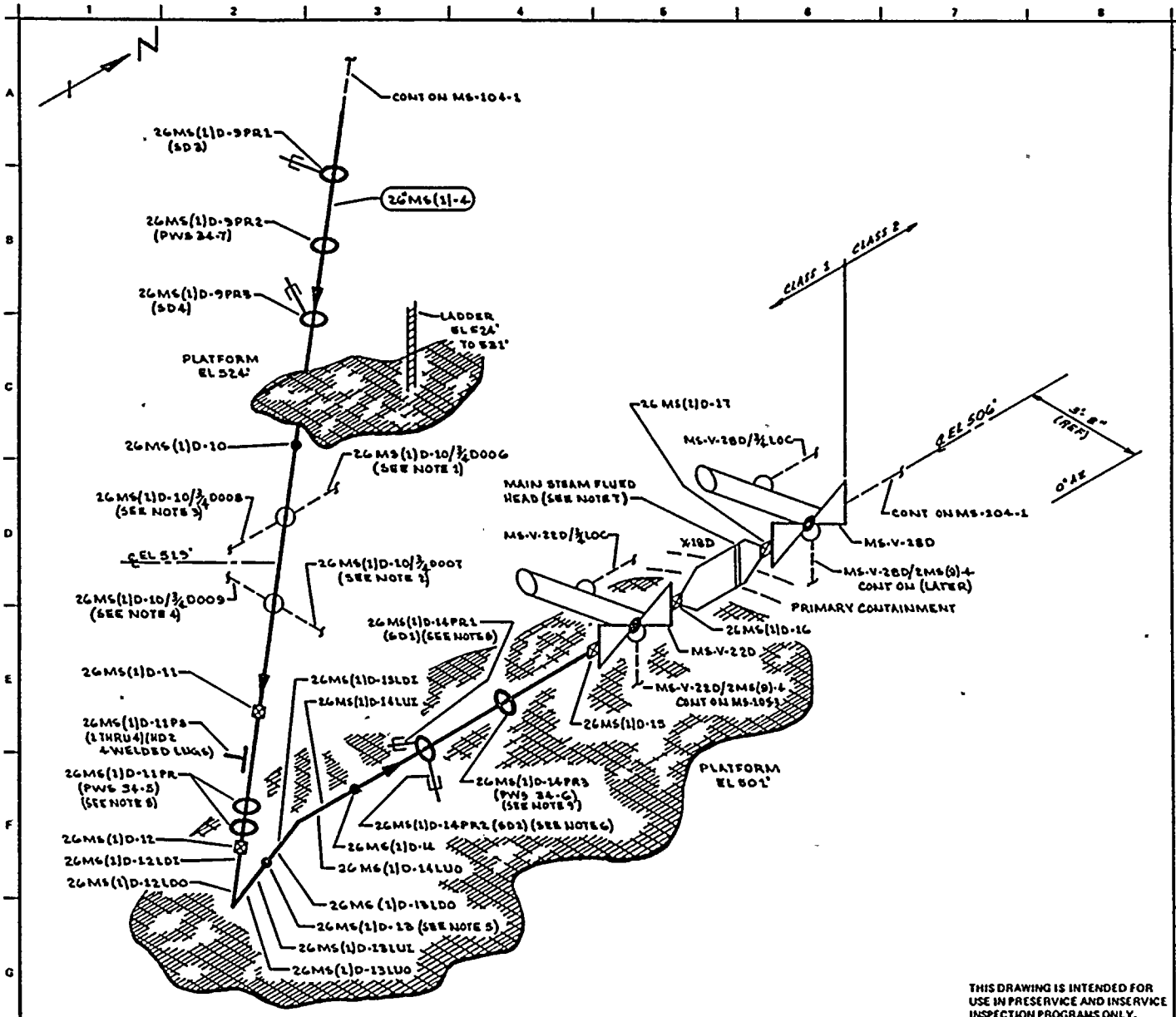
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	26MS(1)C-1	NOZZ TO TRANSITION	B-J	X						UTP-10	UT-104			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)-2	TRANSITION TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-3	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-3LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-3LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-4LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-4LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-4	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	26MS(1)C-4PR	PWS												NOTE 1
MS-103	26MS(1)C-5	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-5PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10	UT-4			
					X					PTP-1				
		HANGER	B-K-2						X	QCS&I-002				
MS-103	26MS(1)C-5PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-103	26MS(1)C-5PR2	SNUBBER	B-K-2						X	QCS&I-002				
MS-103	26MS(1)C-5PR3	PWS												NOTE 1
MS-103	26MS(1)C-6	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-6LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-6LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-7LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-41a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-41b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-70c) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-70a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. WELD 26MS(1)D-13 IS FITTING TO FITTING.
6. ACCESS TO WELD 26MS(1)D-14 REQUIRES REMOVAL OF 26MS(1)D-14PR1 & 26MS(1)D-14PR2.
7. FOR EXAM OF MAIN STEAM FLUED HEAD SEE DWG MS-101-3.
8. ACCESS TO WELD 26MS(1)D-12 IS RESTRICTED BY PWS 34-5.
9. ACCESS TO WELD 26MS(1)D-15 IS RESTRICTED BY PWS 34-6.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 992	131 C 8048
131 C 7734	131 C 8030
131 C 8403	131 C 8031
131 C 8501	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMcA	DCS	RHP
A	4-23-78	ISSUED FOR INFORMATION ONLY	KMcA	DCS	RHP

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: K. McA | DATE: 1-23-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

MAIN STEAM LINE D

DWG NO: MS-104-2 | REV 0

WIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-7LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-7LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-6PR	SNUBBER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-7	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-7/ 8MSR-4D	PIPE TO SHL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	8MSR-4D1	SHL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-104	8MSR-4D2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-104	8MSR-4D-28D	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-4D	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-4D	VALVE BODY	B-M-2					X		QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/0/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE D REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-7PR1	PHS												NOTE 1
MS-104	26MS(1)D-7/ 8MSR-3D	PIPE TO SWL	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-4			
					X									
							X							
MS-104	8MSR-3D1	SWL TO PIPE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-23			
					X									
							X							
MS-104	8MSR-3D2	PIPE TO FLANGE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-23			
					X									
							X							
MS-104	8MSR-3D-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-3D	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-3D	VALVE BODY	B-M-2					X		QCS&I-002				
MS-104	26MS(1)D-7/ 8MSR-2D	PIPE TO SWL	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-4			
					X									
							X							
MS-104	8MSR-2D1	SWL TO PIPE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-24			
					X									
							X							
MS-104	8MSR-2D2	PIPE TO FLANGE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-24			
					X									
							X							

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	8MSR-2D-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-2D	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-2D	VALVE BODY	B-M-2					X		QCS&I-002				
MS-104	26MS(1)D-7PR2	PWS												NOTE 1
MS-104	26MS(1)D-7/ 8MSR-1D	PIPE SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	8MSR-1D1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-104	8MSR-1D2	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-104	8MSR-1D-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-1D	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-1D	VALVE BODY	B-M-2					X		QCS&I-002				
MS-104	26MS(1)D-8	PIPE TO ELL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			

VIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 6 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: IIA DESCRIPTION: CLASS 1 MAIN STEAM LINE D REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-8LDI	EL SEAM	B-J	X	X					UTP-10 PTP-1	UT-4			
MS-104	26MS(1)D-8LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-9LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-9LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-9	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-9PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-9PR2													NOTE 1
MS-104	26MS(1)D-9PR3	SNUBBER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-10	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-10/ 3/4 D006	INSTR CONN	B-P				X			QCS&I-002				

VHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-10/ 3/4 D008	INSTR CONN	B-P				X			QCS&I-002				
MS-104	26MS(1)D-10/ 3/4 D007	INSTR CONN	B-P				X			QCS&I-002				
MS-104	26MS(1)D-10/ 3/4 D009	INSTR CONN	B-P				X			QCS&I-002				
MS-104	26MS(1)D-11	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-11PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10	UT-4			
					X					PTP-1				
		HANGER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-11PR	PHS												NOTE 1
MS-104	26MS(1)D-12	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-12LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-12LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

UMP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 8 of 10

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

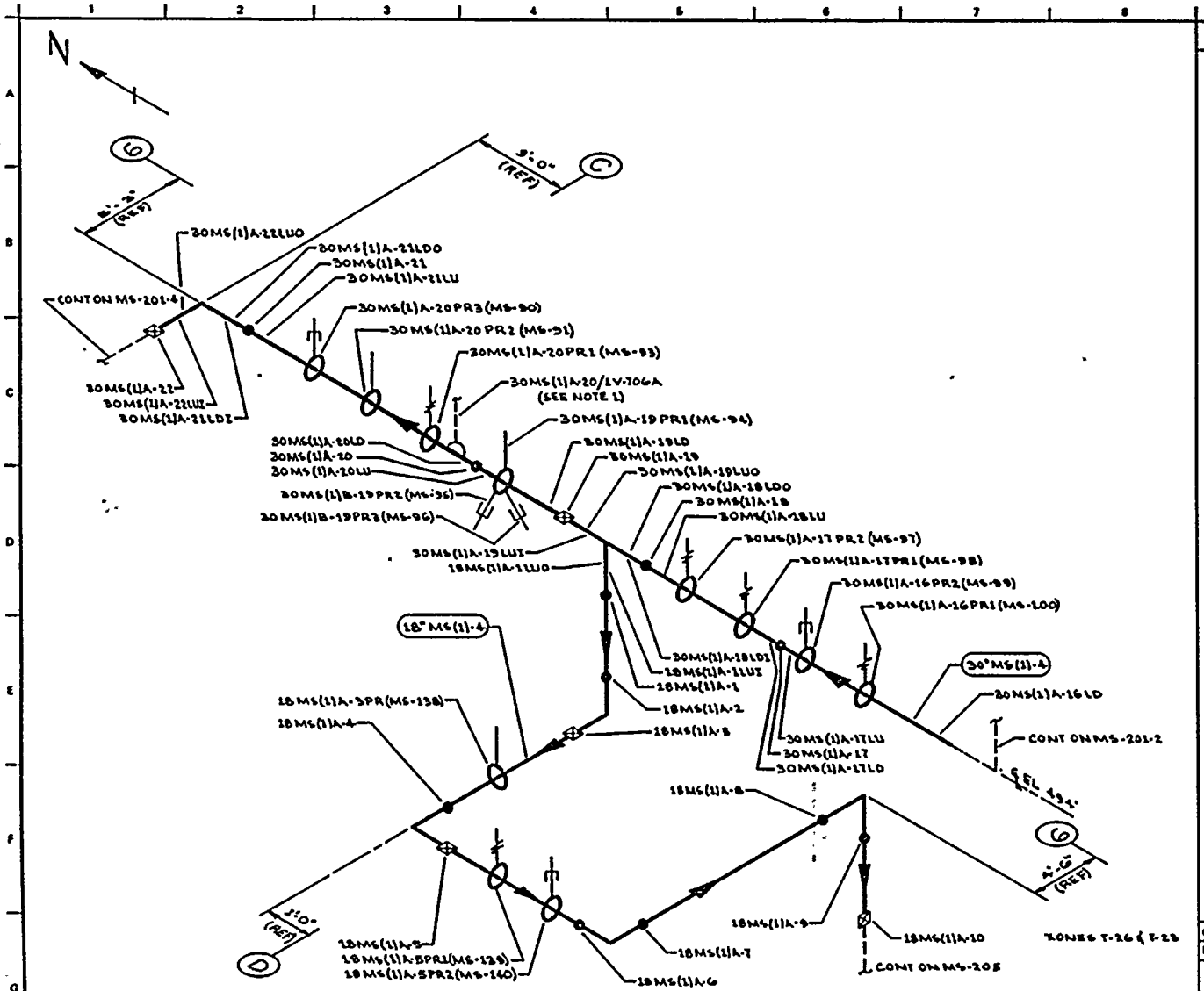
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-12LUI	EL SEAM	B-J	X	X		X			UPT-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-13LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-13	EL TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-13LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-13LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-14LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-14LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-14	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			



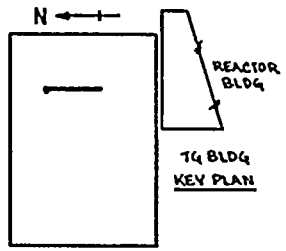
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-706A TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-526-710 REV 3



PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	C-S	UT-1
18"MS(1)-4	18	80	0.938	SA 106 GR B	C-S	UT-12

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	KMcL		
A	4/10/78	ISSUED FOR INFORMATION ONLY	KMcL	KCT	

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: D TIMMING | DRAWN: K. McL | DATE: 2-1-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-201-3 | REV 0

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-17	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-17 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-17 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-17 PR2	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-18 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-18	PIPE TO TEE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-18 LDI	TEE INSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-18 LDO	TEE OUTSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

UMP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	18 MS(1)A-1 LUI	TEE INSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-1 LUO	TEE OUTSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-1	TEE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-2	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-3	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-3 PR	HANGER	C-E-2					X		QCS&I-002				
MS-201	18 MS(1)A-4	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-5	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 15 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

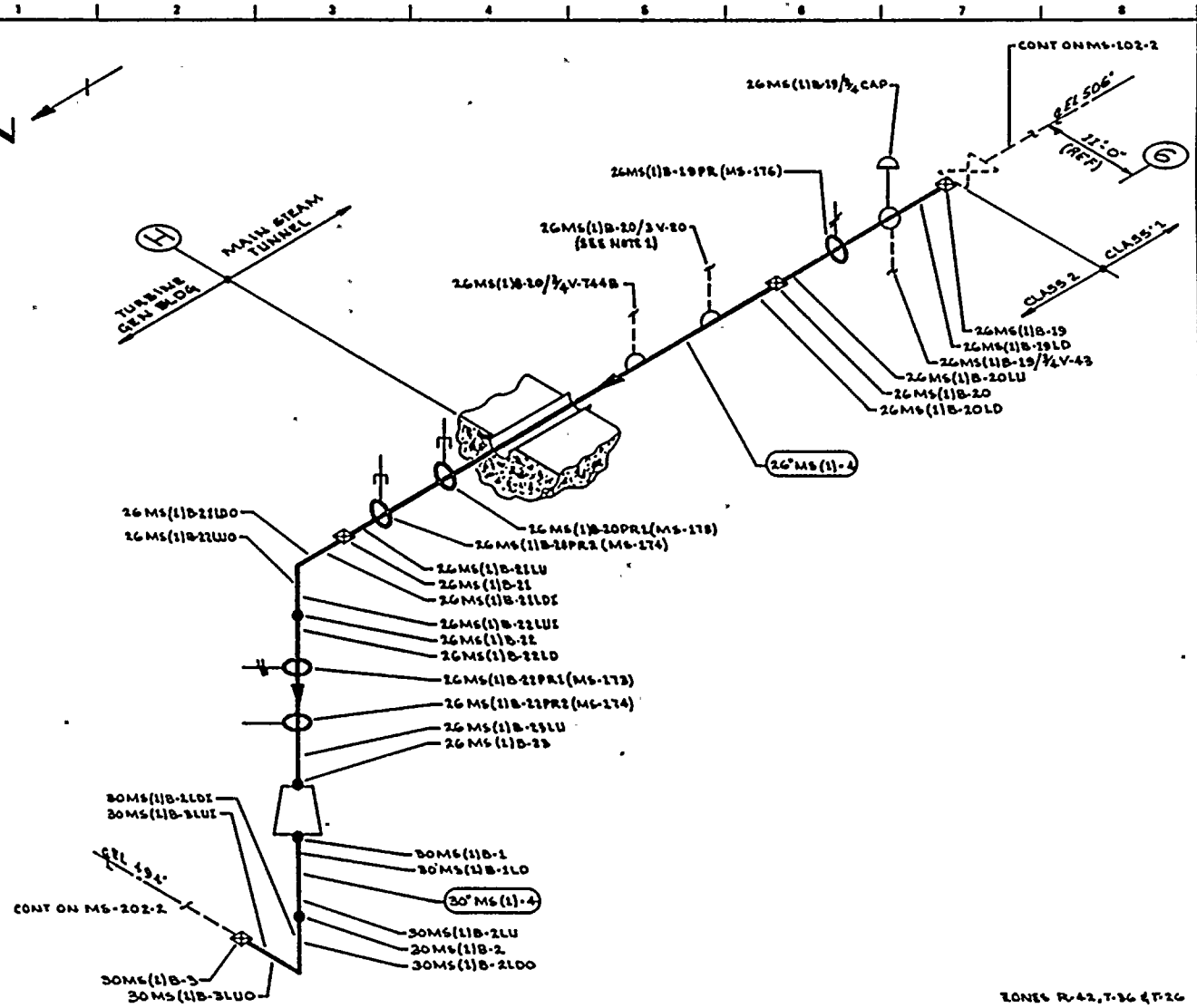
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	18 MS(1)A-5 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	18 MS(1)A-5 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	18 MS(1)A-6	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-7	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-8	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-9	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	18 MS(1)A-10	PIPE TO WOL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-201	30 MS(1)A-19 LUI	TEE INSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 16 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	20 MS(1)A-19 LUO	TEE OUTSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-19	TEE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	20 MS(1)A-19 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-19 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-201	30 MS(1)A-19 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-19 PR3	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-20 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-20	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-20 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

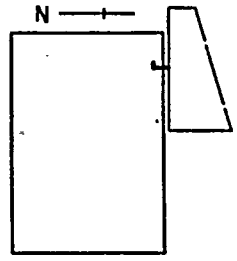


NOTES:

1. A 2" CONNECTION WITH VISUAL (VT-2) EXAM TERMINATING AT 3" MS-V-20.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-529-1-3 REV 2



ZONES R-42, T-36 & T-26

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 155 CL1 KCF 70	C6	UT-3
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	C6	UT-1

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	KMcL	KRS	[illegible]
A	4-24-78	ISSUED FOR INFORMATION ONLY	KMcL	[illegible]	SLR

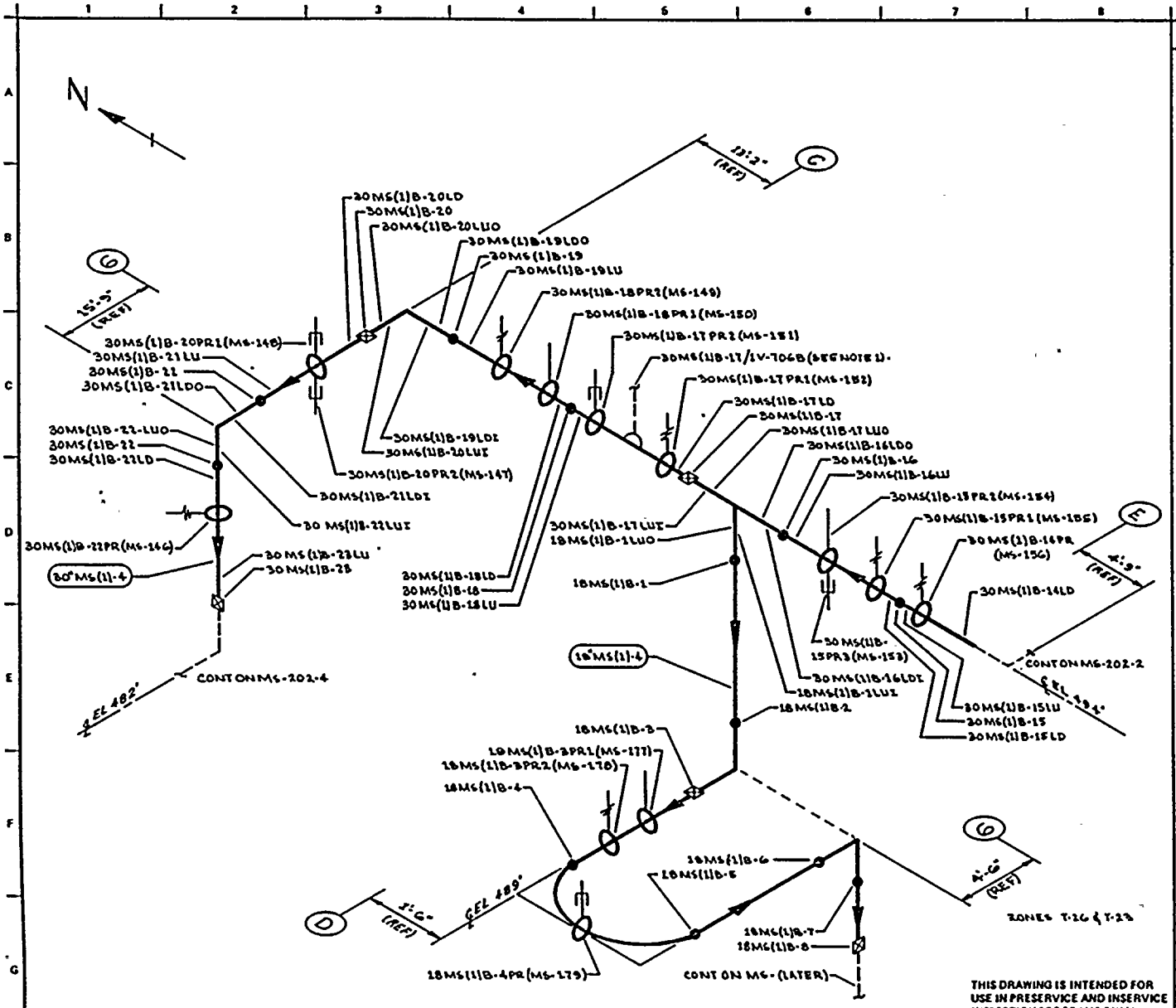
QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: K. McL. A.
	DATE: 2-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE B

DWG NO: MS-202-1 REV 0

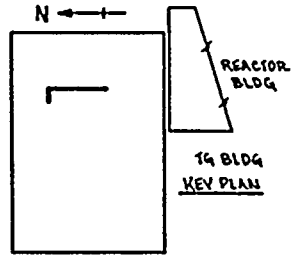


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-706B TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-628-8.11 REV B



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS(1)-4	30	XXX	1.25	SA 155 CL 1 KCF 70	C6	UT-1
18" MS(1)-4	18	80	0.938	SA 106 GR B	C6	UT-12

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	12-078	ISSUED FOR INFORMATION ONLY	KMcA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: D TIMMING | DRAWN: K. McA | DATE: 2-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE B

DWG NO: MS-202-3 | REV 0

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	26 MS(1)B-19	VALVE TO PIPE	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-19 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-19/ 3/4 CAP	CAPPED CONN	IWC-2510				X			UTP-10				
MS-202	26 MS(1)B-19/ 3/4 V-43	TEST CONN	IWC-2510				X			QCS&I-002				
MS-202	26 MS(1)B-19 PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	26 MS(1)B-20 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-20	PIPE TO PIPE	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-20 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	26 MS(1)B-20/ 2 V-20	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-202	26 MS(1)B-20/ 3/4V-744B	INST CONN	IWC-2510				X			QCS&I-002				
MS-202	26 MS(1)B-20 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	26 MS(1)B-20 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	26 MS(1)B-21 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-21	PIPE TO EL	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-21 LDI	EL SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-21 LDO	EL SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				

UMP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 11 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-13 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-15 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-15	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 12 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-15 LD	PIPE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-202	30 MS(1)B-15 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-15 PR2	HANGER	C-E-2					X		QCS&I-002				
MS-202	30 MS(1)B-15 PR3	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-16 LU	PIPE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-202	30 MS(1)B-16	PIPE TO TEE	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-202	30 MS(1)B-16 LDI	TEE INSIDE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-202	30 MS(1)B-16 LDO	TEE OUTSIDE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-202	18 MS(1)B-1 LUI	TEE INSIDE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-12			
					X		X							

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 13 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	18 MS(1)B-1 LUO	TEE OUTSIDE LONG SEAM	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-1	TEE TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-2	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-3	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-3 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-202	18 MS(1)B-3 PR2	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	18 MS(1)B-4	PIPE TO 180° EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-4 PR	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	18 MS(1)B-5	180° EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				

WRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

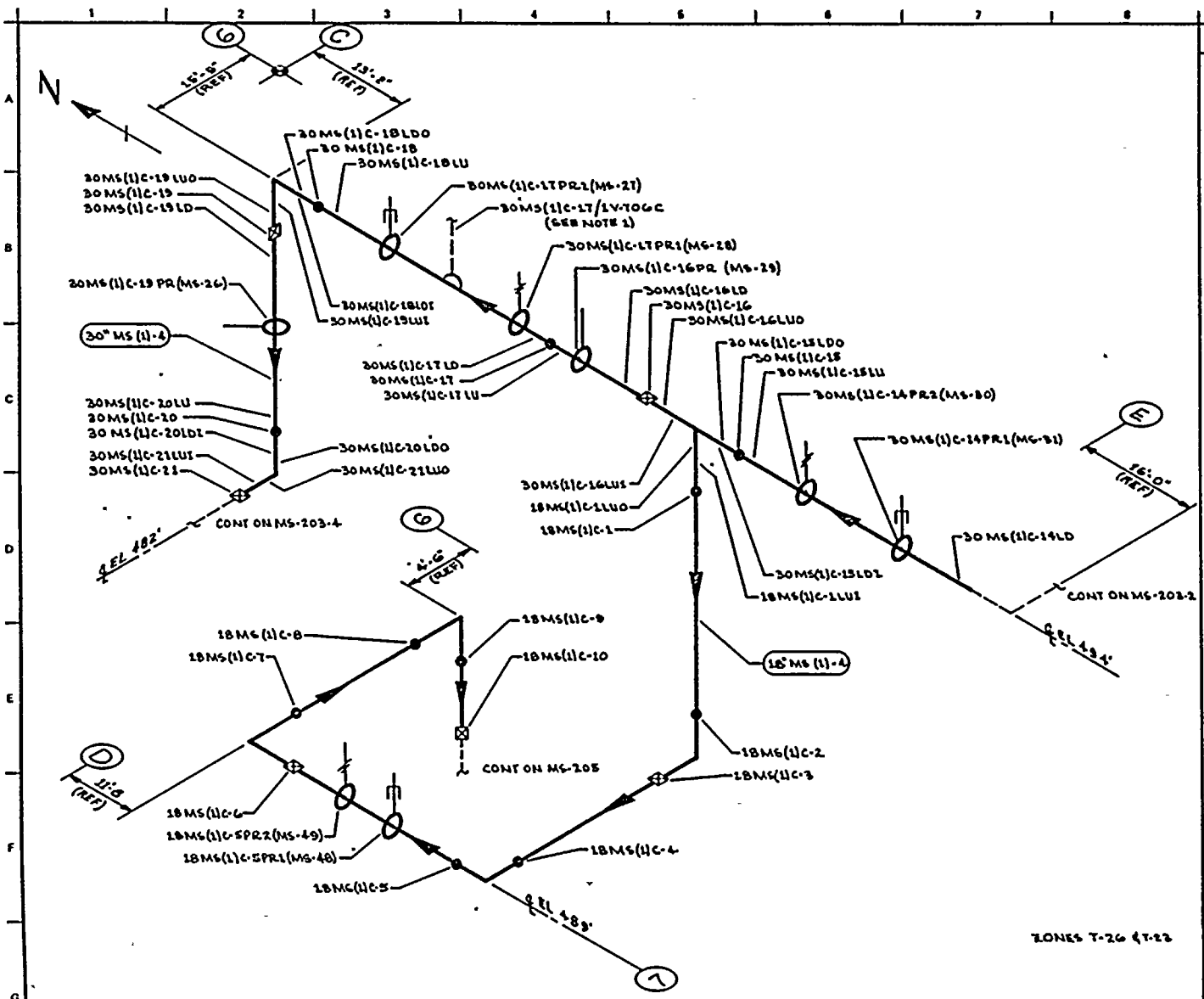
DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
							X			QCS&I-002				
MS-202	18 MS(1)B-6	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-7	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-8	PIPE TO WOL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-17 LUI	TEE INSIDE LONG	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-17 LUO	TEE OUTSIDE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-17	TEE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-17 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-17 PR1	SPRING HANGER	C-E-2						X	QCS&I-002				

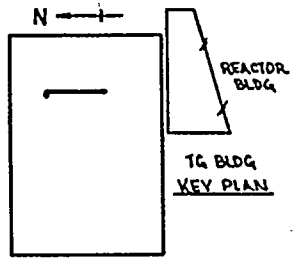


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-106C TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-530-7.10 REV 3



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA165 CL1 KCF 70	CS	UT-1
18MS(1)-4	18	80	0.938	SA 106 GR B	CS	UT-12

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	4-24-78	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: D TIMMINS | DRAWN: K.M.A | DATE: 2-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE C

DWG NO: MS-203-3 | REV 0

HHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-13 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-13 PR	HANGER	C-E-2					X		QCS&I-002				
MS-203	30 MS(1)C-14 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-14 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-14	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-14 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-14 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-14 PR2	SPRING HGR	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-15 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	20 MS(1)C-15	PIPE TO TEE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-15 LDI	TEE INSIDE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-15 LDO	TEE OUTSIDE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-1 LUI	TEE INSIDE LONG SEAM	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-1 LUO	TEE OUTSIDE LONG SEAM	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-1	TEE TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-2	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-3	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 13 of 21

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. HS (1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 0

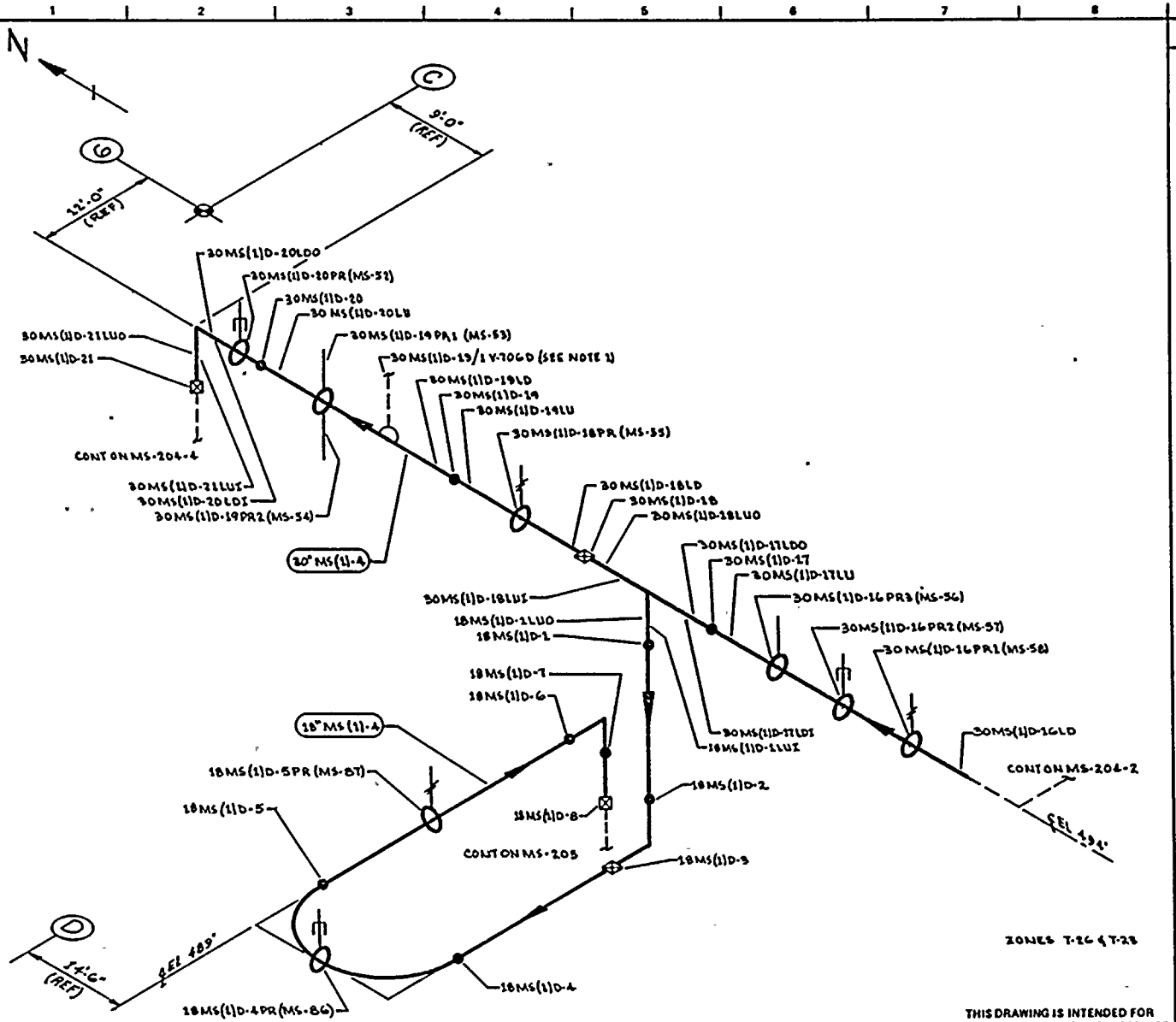
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	18 MS(1)C-4	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-5	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-5 PR1	SHUBBER	C-E-2						X	QCS&I-002				
MS-203	18 MS(1)C-5 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-203	18 MS(1)C-6	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-7	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-8	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-9	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 14 of 21

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	18 MS(1)C-10	PIPE TO WOL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-16 LUI	TEE INSIDE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-16 LUO	TEE OUTSIDE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-16	TEE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-16 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-16 PR	HANGER	C-E-2					X		QCS&I-002				
MS-203	30 MS(1)C-17 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-17	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

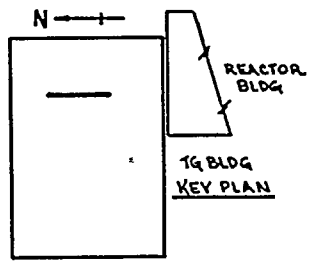


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-706D TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-651-T.10 REV 3



QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: D TIMMINS	DRAWN: K.M.C.A	DATE: 2-21-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
18" MS(1)-4	18	80	0.938	SA 106 GR B	CS	UT-12

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE D

DWG NO: MS-204-3 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	3-9-79	ISSUED FOR USE	K.M.C.A	[illegible]	[illegible]
A	4-20-78	ISSUED FOR INFORMATION ONLY	K.M.C.A	[illegible]	[illegible]

UNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 11 of 20

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: N/A DESCRIPTION: CLASS 2 MAIN STEAM LINE D REVISION: 0

ING. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-14 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-15 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(2)D-15	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-15 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-15 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-16 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-16 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-16	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 12 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-16 LD	PIPE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-204	30 MS(1)D-16 PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-16 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-16 PR3	HANGER	C-E-2					X		QCS&I-002				
MS-204	30 MS(1)D-17 LU	PIPE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-204	30 MS(1)D-17	PIPE TO TEE	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-204	30 MS(1)D-17 LDI	TEE INSIDE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		x							
MS-204	30 MS(1)D-17 LDO	TEE OUTSIDE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 13 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	18 MS(1)D-1 LUI	TEE INSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-204	18 MS(1)D-1 LUO	TEE OUTSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-204	18 MS(1)D-1	TEE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-204	18 MS(1)D-2	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-204	18 MS(1)D-3	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-204	18 MS(1)D-4	PIPE TO 180° EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-204	18 MS(1)D-4PR	SNUBBER	C-E-2						X	QCS&I-002				
MS-204	18 MS(1)D-5	180° EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

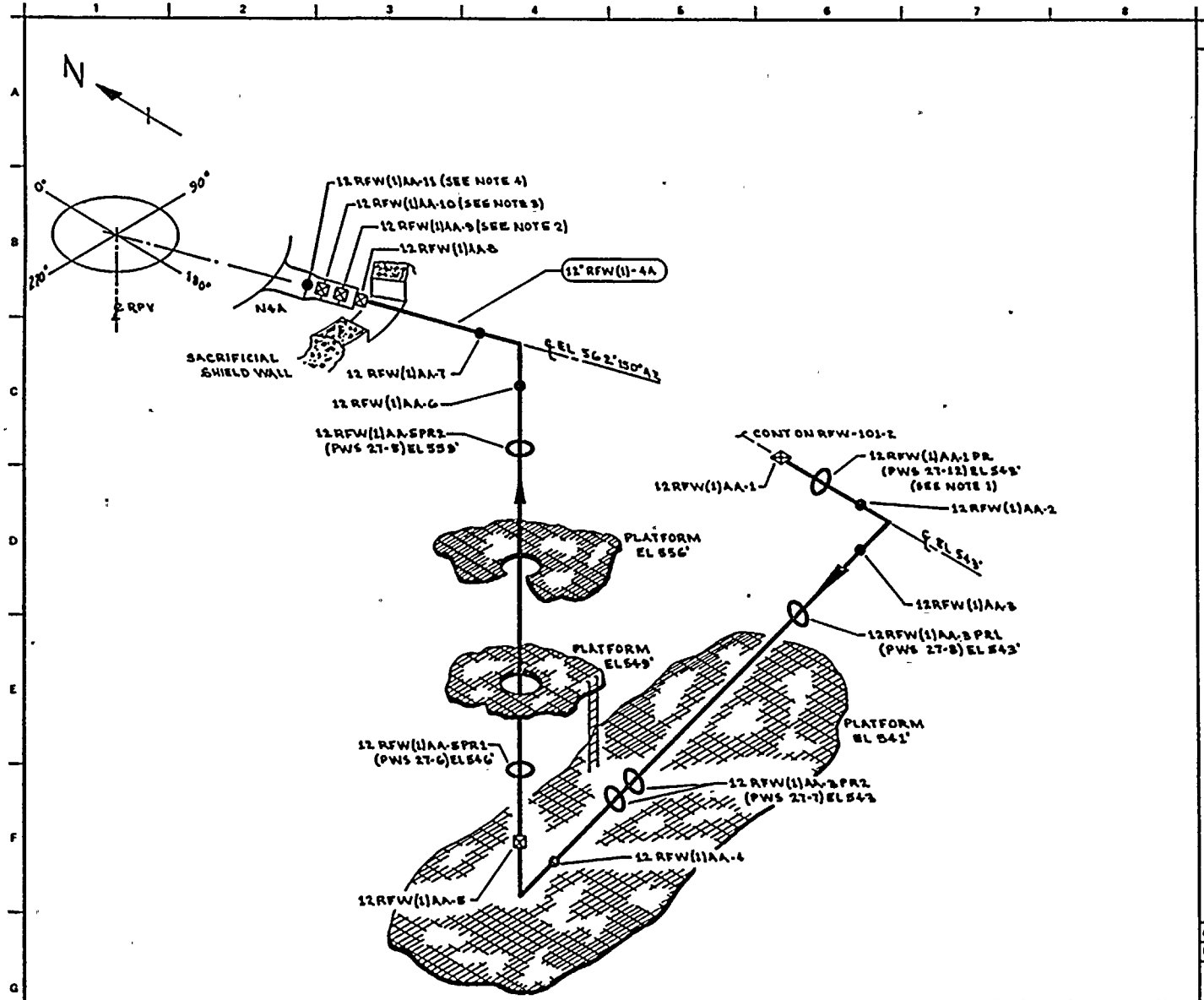
DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	18 MS(1)D-5 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	18 MS(1)D-6	PIPE TO EL	C-F	X						UPT-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	18 MS(1)D-7	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	18 MS(1)D-8	PIPE TO WOL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-18 LUI	TEE INSIDE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-18 LUO	TEE OUTSIDE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-18	TEE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-18 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				



NOTES:

1. ACCESS TO WELD 12 RFW(1)AA-2 REQUIRES REMOVAL OF 12 RFW(1)AA-1 PR.
2. WELD 12 RFW(1)AA-9 UTILIZES CAL BLOCK UT-106.
3. WELD 12 RFW(1)AA-10 UTILIZES CAL BLOCK UT-105.
4. WELD 12 RFW(1)AA-11 UTILIZES CAL BLOCK UT-102.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RFW-418-7.8 REV 1
RFW-418-13 REV 1

CBI NUCLEAR CO.

59, REV 9, N4 NOZZLE

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW(1)-4A	12	120	1.000	SA 106 GR B	CS	UT-15

NO	DATE	REVISION	BY	CHKD	APPVD
1	5-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 2)	KMA	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KMA	[illegible]	[illegible]
A	4-21-78	ISSUED FOR INFORMATION ONLY	KMA	DCJ	D.R

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: V. McA | DATE: 3-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

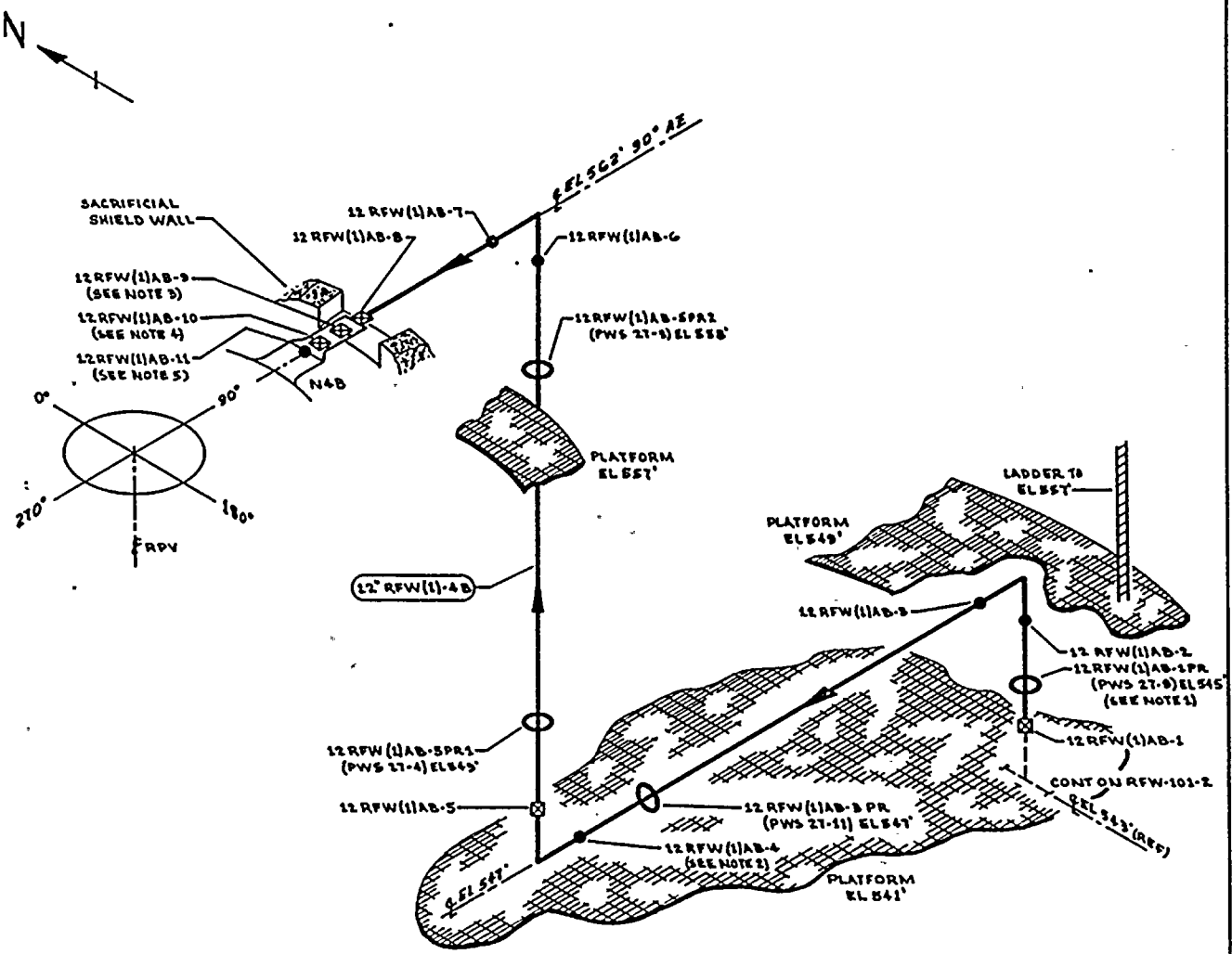
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

REACTOR FEED WATER LINE A.A.

DWG NO: RFW-101-3 | REV 1



NOTES:

1. ACCESS TO WELD 12 RFW(1)AB-2 REQUIRES REMOVAL OF 12 RFW(1)AB-1PR.
2. ACCESS TO WELD 12 RFW(1)AB-4 REQUIRES REMOVAL OF 12 RFW(1)AB-3PR.
3. WELD 12 RFW(1)AB-9 UTILIZES CAL BLOCK UT-106.
4. WELD 12 RFW(1)AB-10 UTILIZES CAL BLOCK UT-105.
5. WELD 12 RFW(1)AB-11 UTILIZES CAL BLOCK UT-102.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RFW-418-11.12 REV 1

CBS NUCLEAR CO.
59, REV 9, N4 NOZZLE

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-19	CAL BLOCK REFERENCE CHANGED (NOTE 3)	KMA	[illegible]	[illegible]
0	11-27-18	ISSUED FOR USE	KMA	DJP	BWP
A	4-21-16	ISSUED FOR INFORMATION ONLY	KMA	DCJ	BWP

QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D TIMMINS | DRAWN: K.M.A. | DATE: 3-2-18

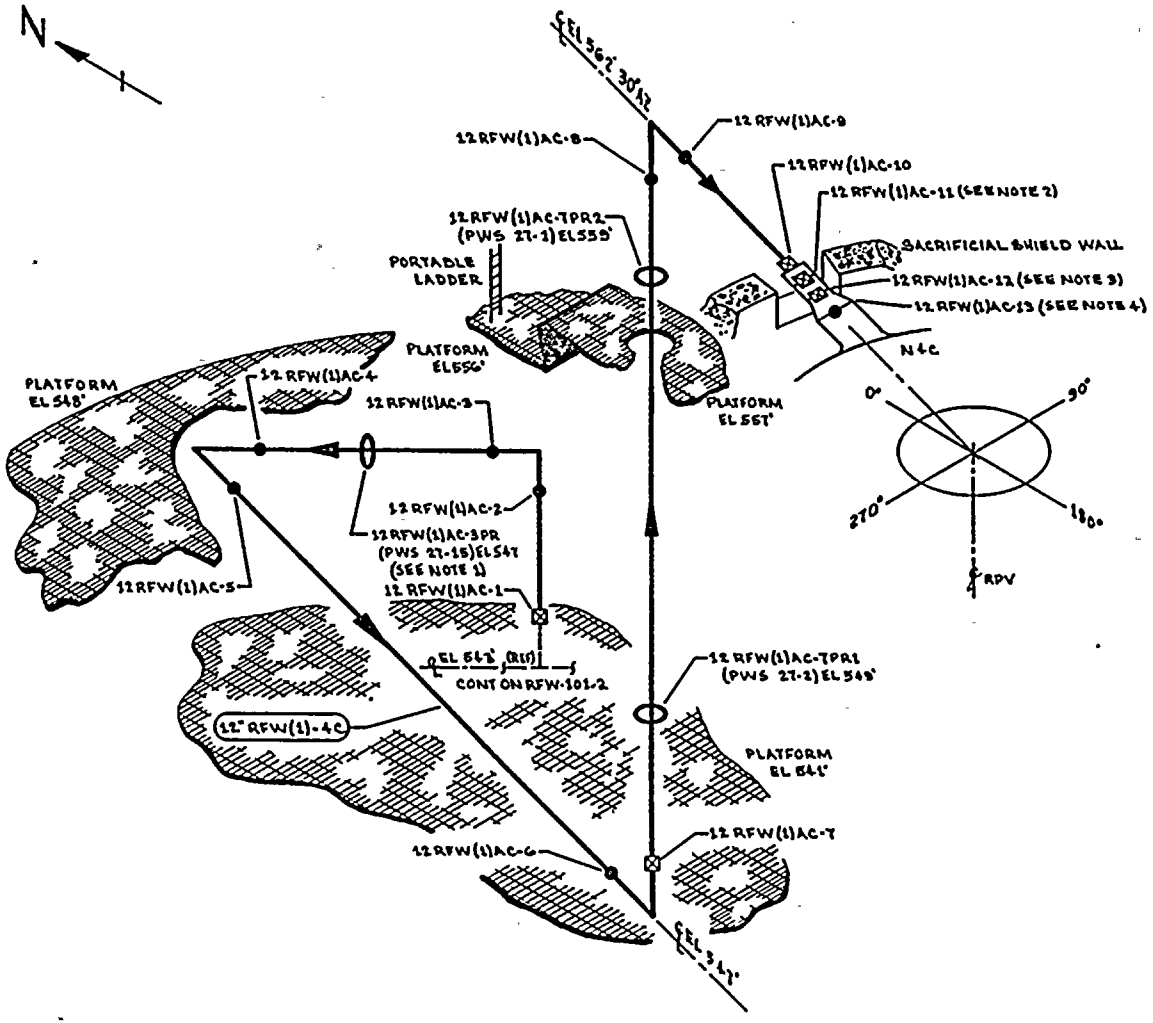
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE AB

DWG NO: RFW-101-4 | REV 1



NOTES:

1. ACCESS TO WELDS 12 RFW(1)AC-3 & 12 RFW(1)AC-4 REQUIRES REMOVAL OF 12 RFW(1)AC-3PR.
2. WELD 12 RFW(1)AC-11 UTILIZES CAL BLOCK UT-106.
3. WELD 12 RFW(1)AC-12 UTILIZES CAL BLOCK UT-105.
4. WELD 12 RFW(1)AC-13 UTILIZES CAL BLOCK UT-102.

REFERENCES:

BOVEE & CRAIL ISOMETRIC RFW-4-18-3.10 REV 2

CBI NUCLEAR CO. 55, REV 3, N4 NOZZLE

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 2)	KMcA	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	9-21-78	ISSUED FOR INFORMATION ONLY	KMcA	DCJ	[illegible]

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: K McA | DATE: 3-3-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE AC

DWG NO: RFW-101-15 | REV 1

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	24RFW(1)A-7	EL TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-7PR1	PHS												NOTE 1
RFW-101	24RFW(1)A-7PR2	PHS												NOTE 1
RFW-101	24RFW(1)A-7/ 3/4V-44B	TEST CONN	B-P				X			QCS&I-002				
RFW-101	24RFW(1)A-8	PIPE TO VALVE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	RFW-V-11A	VALVE BODY	B-M-2					X		QCS&I-002				
RFW-101	RFW-V-11A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RFW-101	24RFW(1)A-9	VALVE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-9PR	PHS												NOTE 1
RFW-101	24RFW(1)A-10	PIPE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-11	PIPE TO EL	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 | DATE: 1/8/79

PERIOD: HA | DESCRIPTION: REACTOR FEEDWATER LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	24RFW(1)A-12	EL TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-13	PIPE TO EL	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-14	EL TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-14PR	PHS												NOTE 1
RFW-101	24RFW(1)A-15	PIPE TO TEE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AC-1	TEE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AC-2	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AC-3	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AC-3PR	PHS												NOTE 1

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 5 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR FEEDWATER LINE A REVISION: 0

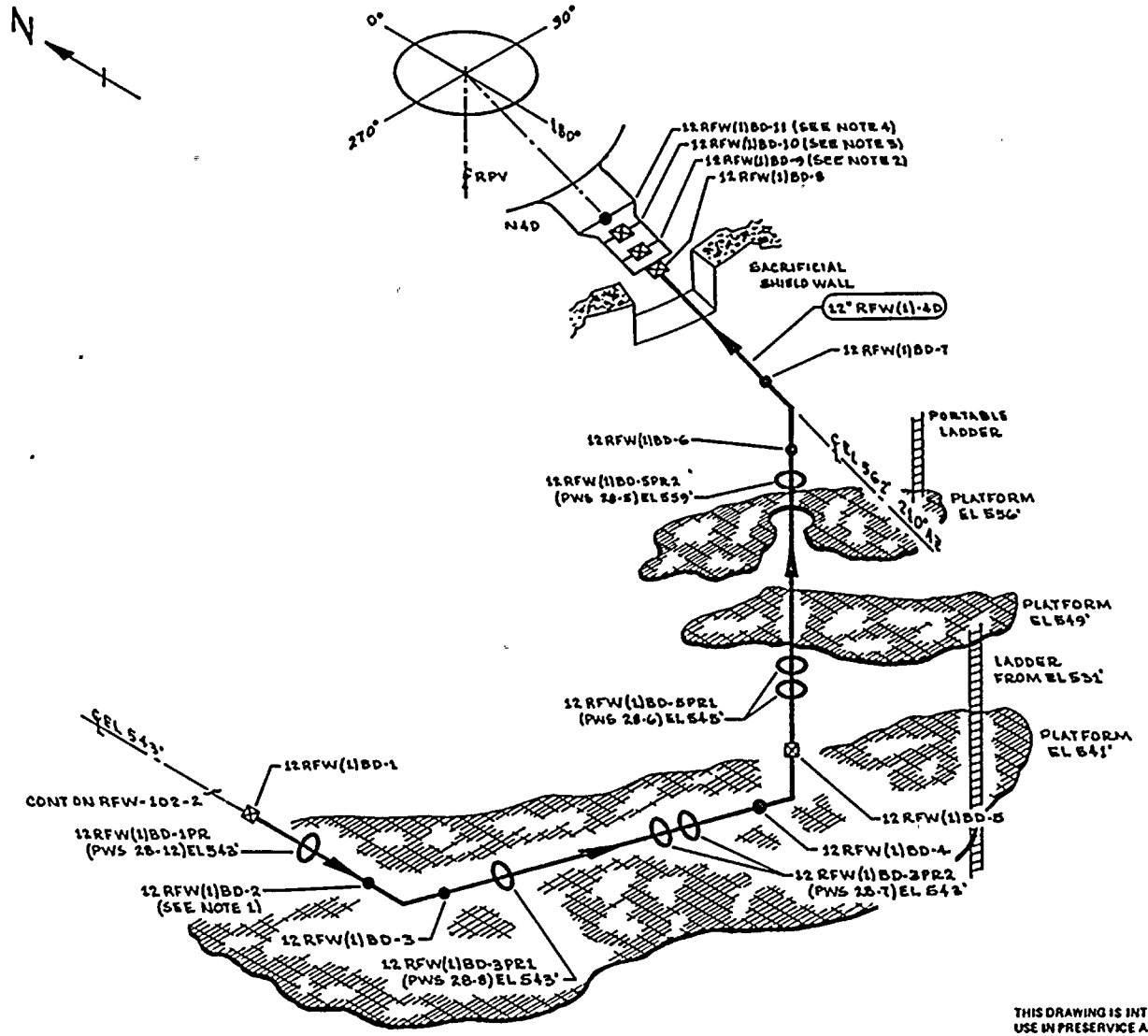
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	12RFW(1)AC-4	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-5	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-6	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-7	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-5			
RFW-101	12RFW(1)AC-7PR1	PWS												NOTE 1
RFW-101	12RFW(1)AC-7PR2	PWS												NOTE 1
RFW-101	12RFW(1)AC-8	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-9	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-10	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			

HIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER LINE A | REVISION: 0

DIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	12RFW(1)AC-11	SEE TO SES	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-10			
RFW-101	12RFW(1)AC-12	SES TO SE	B-J	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-10			
RFW-101	12RFW(1)AC-13	SE TO N4	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-10			
RFW-101	24RFW(1)A-16	TEE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-5			
RFW-101	24RFW(1)A-17	PIPE TO RED.	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-5			
RFW-101	18RFW(1)A-1	RED. TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-11			
RFW-101	18RFW(1)A-1PR	PHS												NOTE 1
RFW-101	18RFW(1)A-2	PIPE TO TEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-11			



NOTES:

1. ACCESS TO WELD 12 RFW(1)BD-2 REQUIRES REMOVAL OF 12 RFW(1)BD-1PR.
2. WELD 12 RFW(1)BD-9 UTILIZES CAL BLOCK UT-106.
3. WELD 12 RFW(1)BD-10 UTILIZES CAL BLOCK UT-105.
4. WELD 12 RFW(1)BD-11 UTILIZES CAL BLOCK UT-102.

REFERENCES:

BOYES & CRAIL ISOMETRIC RFW-419-B-3 REV 1.

CBI NUCLEAR CO. 59, REV 9, N4 NOZZLE.

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

NO	DATE	REVISION	BY	CHKD	APPVD
1	3-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 2)	KMcA	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	6-21-78	ISSUED FOR INFORMATION ONLY	KMcA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1

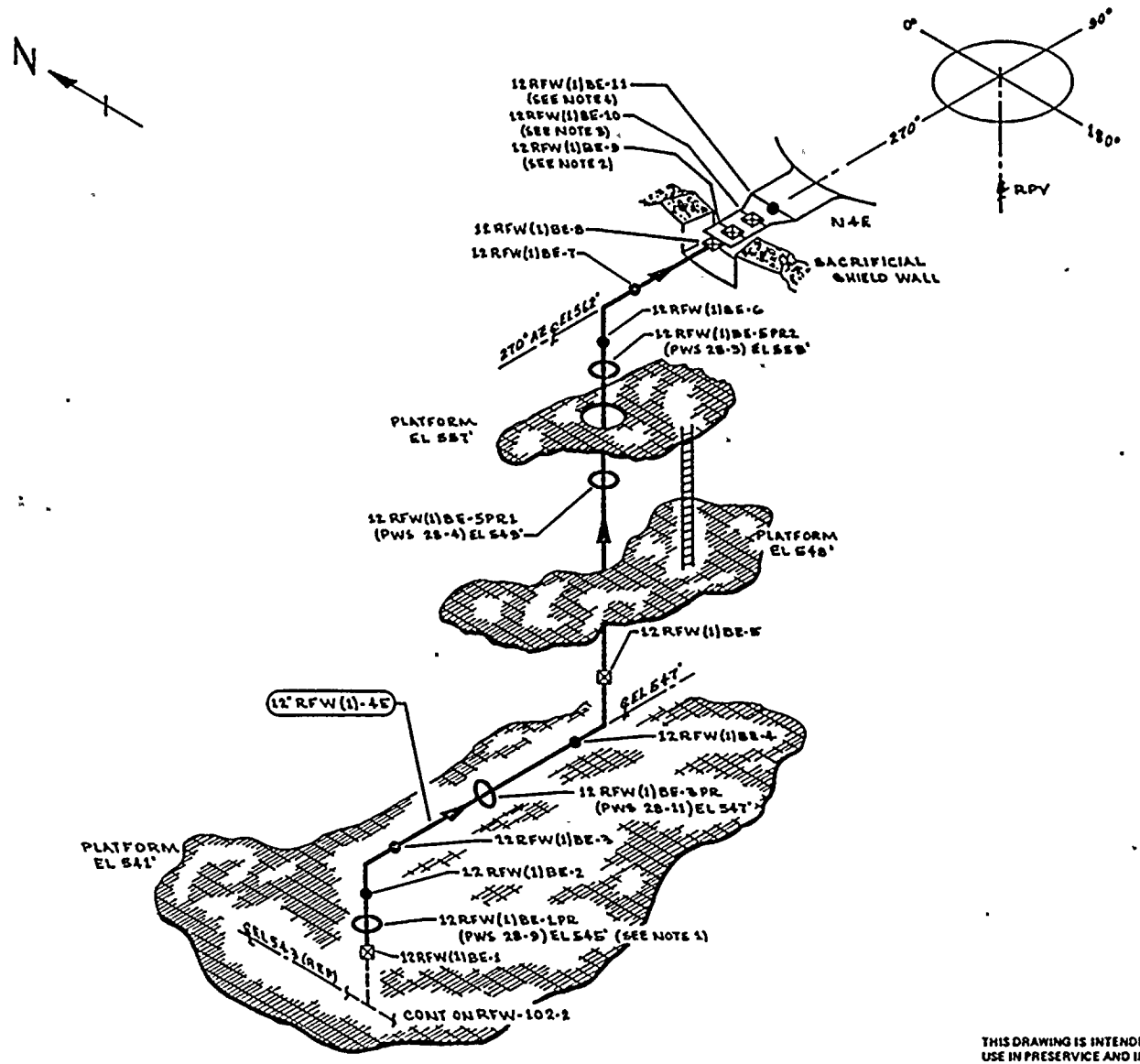
ENGR: D TIMMINS | DRAWN: K McA | DATE: 3-7-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE BD

DWG NO: RFW-102-3 | REV 1



NOTES:

1. ACCESS TO WELD 12RFW(1)BE-2 REQUIRES REMOVAL OF 12RFW(1)BE-1PR.
2. WELD 12RFW(1)BE-9 UTILIZES CAL BLOCK UT-106.
3. WELD 12RFW(1)BE-10 UTILIZES CAL BLOCK UT-105.
4. WELD 12RFW(1)BE-11 UTILIZES CAL BLOCK UT-102.

REFERENCES:

BOYEE & CRAIL ISOMETRIC
RFW-419-10-11 REV 1

CBI NUCLEAR CO.
59, REV 9, N4 NOZZLE

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K.M.&A. DATE: 3-7-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

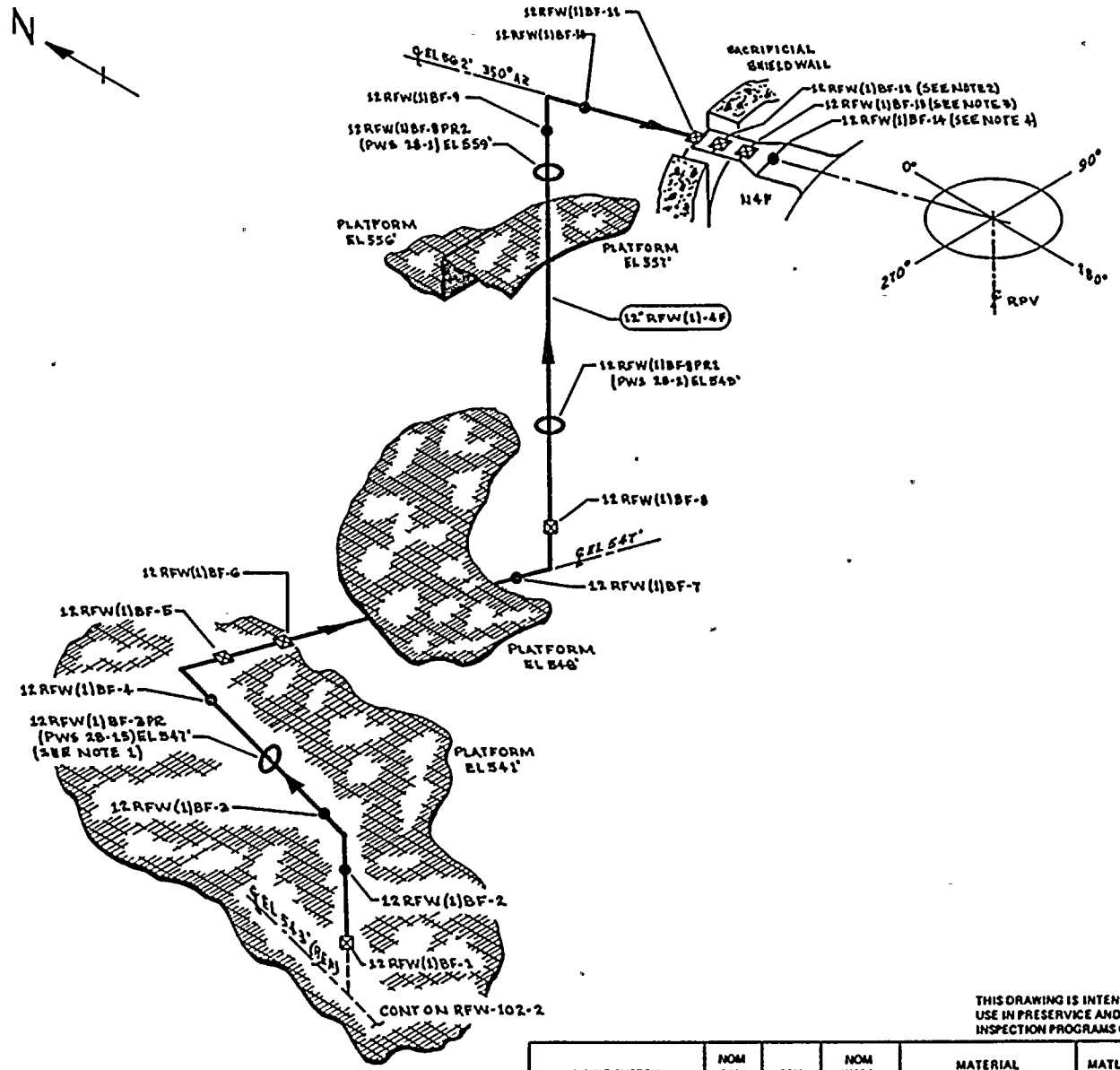
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12"RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE BE

DWG NO: RFW-102-4 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 2)	K.M.&	K.M.&	R.W.P.
0	11-27-78	ISSUED FOR USE	K.M.&	R.W.P.	R.W.P.
A	4-27-78	ISSUED FOR INFORMATION ONLY	K.M.&	D.C.J.	R.W.P.



NOTES:

1. ACCESS TO WELDS 12 RFW(1)BF-3 & 12 RFW(1)BF-4 REQUIRES REMOVAL OF 12 RFW(1)BF-3PR.
2. WELD 12 RFW(1)BF-12 UTILIZES CAL BLOCK UT-106.
3. WELD 12 RFW(1)BF-13 UTILIZES CAL BLOCK UT-105.
4. WELD 12 RFW(1)BF-14 UTILIZES CAL BLOCK UT-102.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RFW-419-12.15 REV 3

CBI NUCLEAR CO.
59, REV 5, N4 NOZZLE

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K.McA DATE: 3-13-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12"RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE BF

DWG NO: RFW-102-B REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 2)	K.McA	QAR	QAP
0	11-21-78	ISSUED FOR USE	K.McA	QAR	QAP
A	4-21-78	ISSUED FOR INFORMATION ONLY	K.McA	DCJ	QAP

UIP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 7 of 11

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE B

REVISION: 0

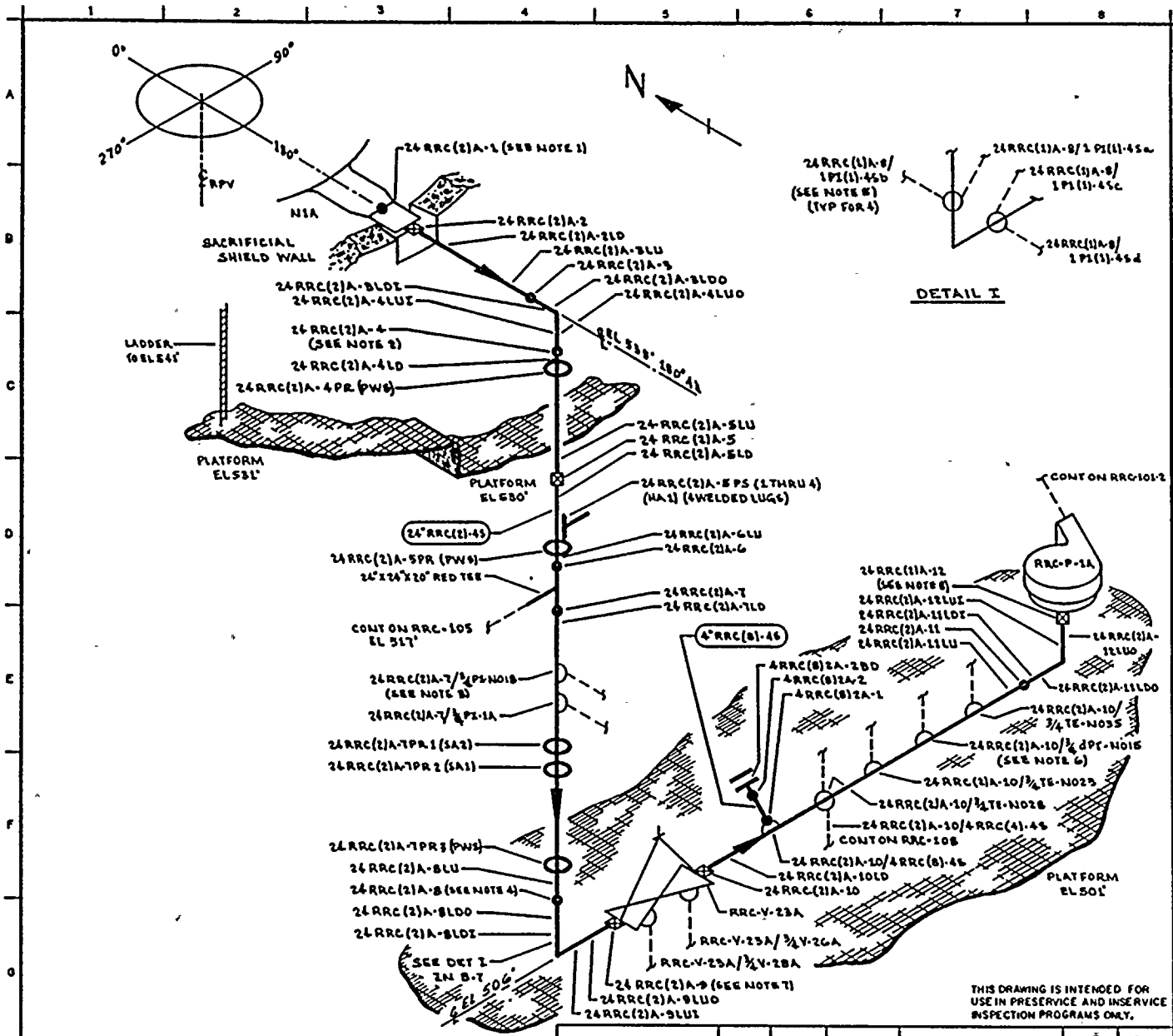
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	24RFW(1)B-17	PIPE TO RED.	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	18RFW(1)B-1	RED. TO PIPE	B-J	X						UTP-10	UT-11			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	18RFW(1)B-1PR	PWS												NOTE 1
RFW-102	18RFW(1)B-2	PIPE TO TEE	B-J	X						UTP-10	UT-11			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-1	TEE TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-1PR	PWS												NOTE 1
RFW-102	12RFW(1)BE-2	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-3	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-3PR	PWS												NOTE 1

UNIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 8 of 11

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR FEEDWATER LINE B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	12RFW(1)BE-4	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-102	12RFW(1)BE-5	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-102	12RFW(1)BE-5PR1	PWS												NOTE 1
RFW-102	12RFW(1)BE-5PR2	PWS												NOTE 1
RFW-102	12RFW(1)BE-6	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-102	12RFW(1)BE-7	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-102	12RFW(1)BE-8	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-102	12RFW(1)BE-9	SEE TO SES	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-106			
RFW-102	12RFW(1)BE-10	SES TO SE	B-J	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-105			



NOTES:

1. WELD 24 RRC(2)A-1 UTILIZES CAL BLOCK UT-101.
2. ACCESS TO WELD 24 RRC(2)A-4 REQUIRES REMOVAL OF 24 RRC(2)A-4PR.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-7B[) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. ACCESS TO WELD 24 RRC(2)A-8 REQUIRES REMOVAL OF 24 RRC(2)A-7PR4.
5. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATIONS (X-40c, X-40d, X-61a, & X-61b) THROUGH EXCESS FLOW CHECK VALVES TO INSTRUMENT TUBING CONNECTIONS.
6. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-70[) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
7. WELD 24 RRC(2)A-9 IS FITTING TO FITTING.
8. WELD 24 RRC(2)A-12 IS FITTING TO FITTING.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 558 SH1	REV 5
762 E 558 SH2	REV 3
761 E 788	REV 6
131 C 7587	REV 3
131 C 7686	REV 4

CBI NUCLEAR CO.

48, REV 4, N1 NOZZLE ASSEMBLY

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RRC(2)-45	24	XXX	1.140	SA 358 GR 304 CL 1	SS	UT-7
4" RRC(8)-45	4	40	0.237	SA 376 TP 304	SS	UT-31

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-17-78	ISSUED FOR USE	K.M.A	R.S.D	
A	5-19-78	ISSUED FOR INFORMATION ONLY	K.M.A	R.S.D	

QUALITY CLASS: 1 | ASME CODE CLASS: 1

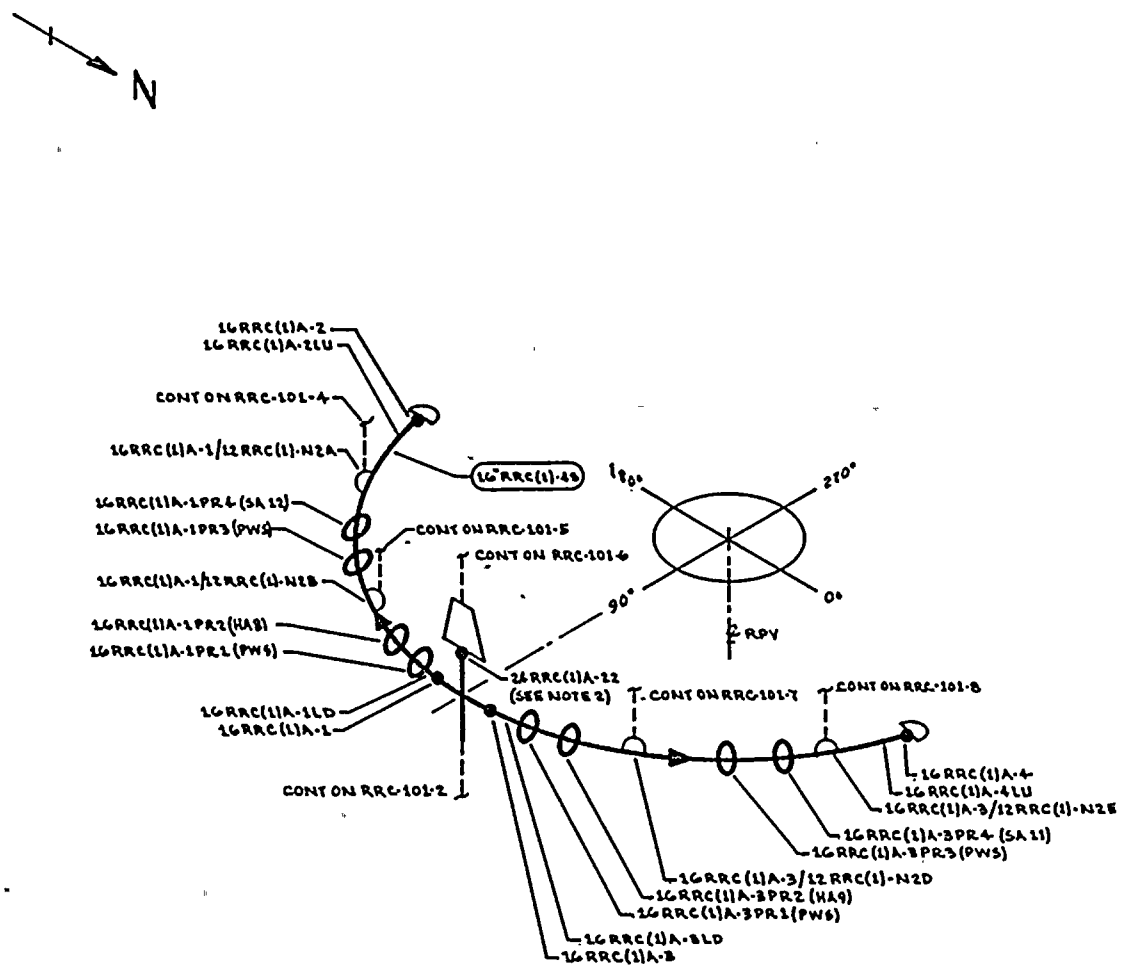
ENGR: D TIMMING | DRAWN: K.M.A | DATE: 4-5-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP A

DWG NO: RRC-101-1 | REV 0



NOTES:

1. ACCESS TO WELDS 16RRC(1)A-1 THRU 4 & 24RRC(1)A-22 REQUIRES TEMPORARY SCAFFOLDING.
2. WELD 24RRC(1)A-22 TO FITTING TO FITTING.

REFERENCES

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 538 SH 1	REV 3
762 E 538 SH 2	REV 3
761 E 735	REV 6
151 C 7590	REV 1

QUALITY CLASS: 1		ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: K. M. A	DATE: 4-6-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

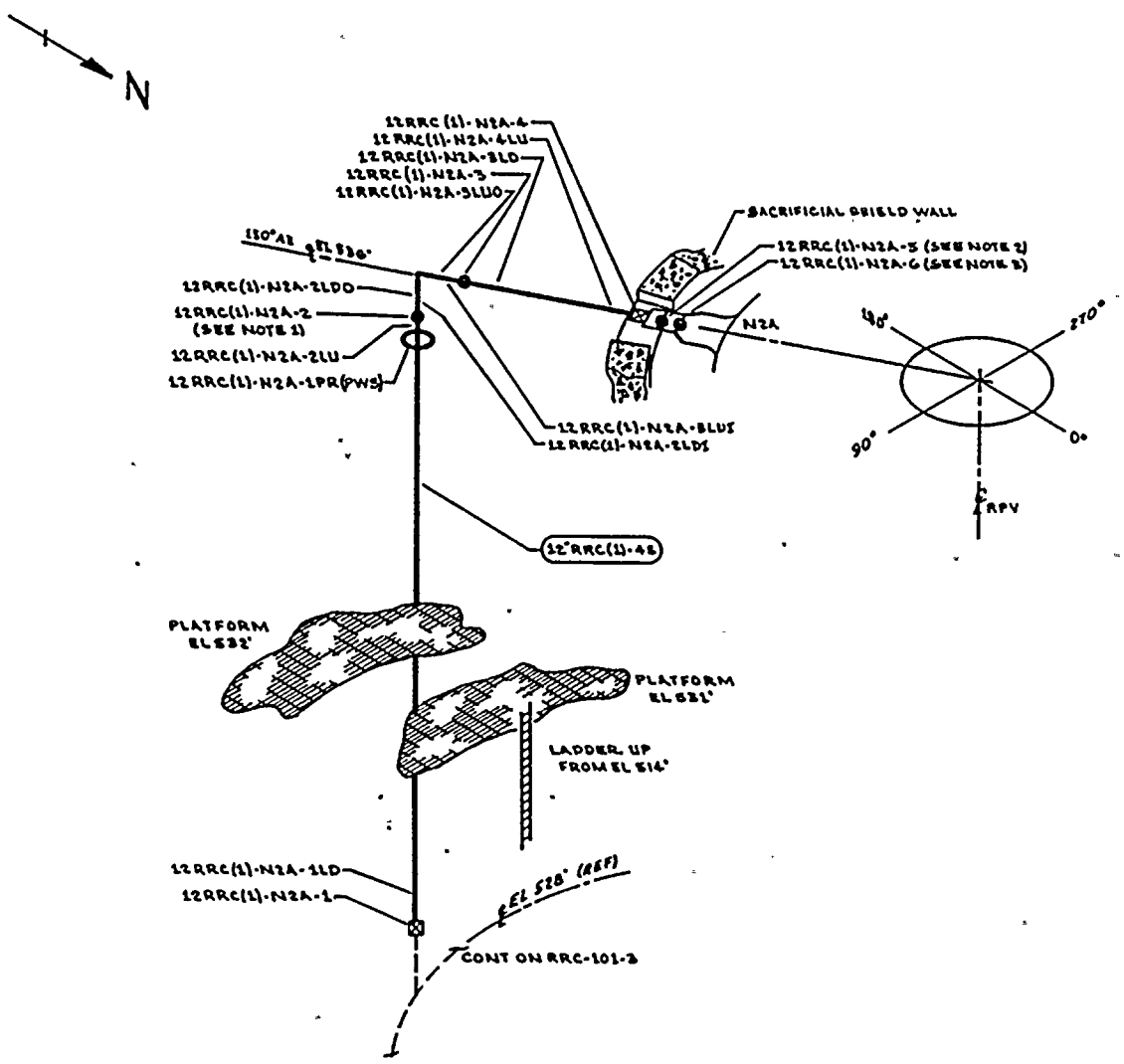
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16" RRC(1)-4S	16	XXX	0.758	SA 358 GR 304 CL 1	3S	UT-15

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP A

DWG NO: RRC-101-3 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	K.M.A	QR	
A	5-19-78	ISSUED FOR INFORMATION ONLY	K.M.A		



NOTES:

1. ACCESS TO WELD 12 RRC(1)-N2A-2 REQUIRES REMOVAL OF 12RRC(1)-N2A-1PR.
2. WELD 12 RRC(1)-N2A-5 UTILIZES CAL BLOCK UT-103.
3. WELD 12 RRC(1)-N2A-6 UTILIZES CAL BLOCK UT-102

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 538 SH 1	REV 3
762 E 538 SH 2	REV 3
761 E 738	REV 6

CBI NUCLEAR CO.

52, REV 10. N2 NOZZLE ASSEMBLY

QUALITY CLASS: 1		ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: K.M.A	DATE: 4.4.78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

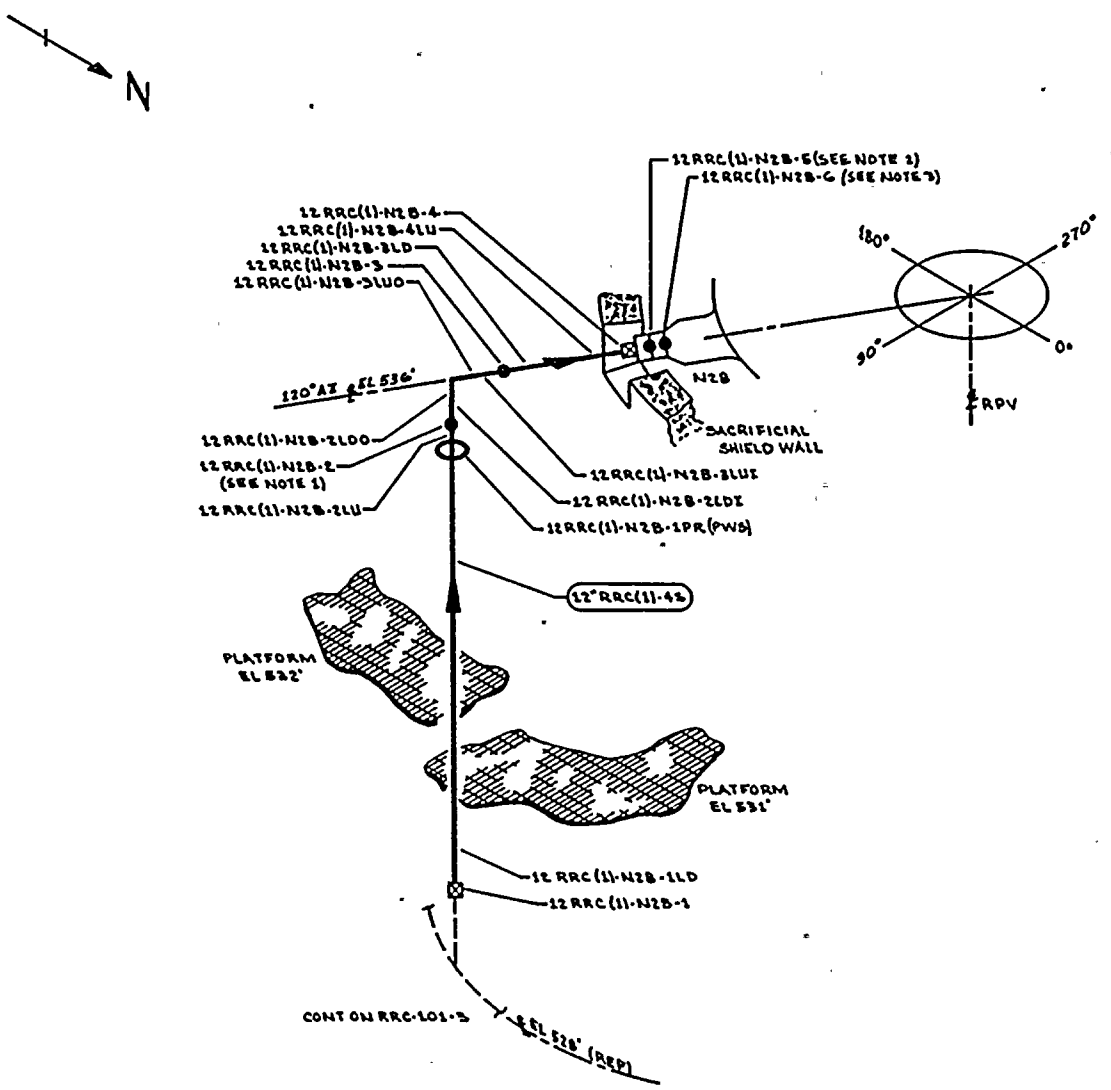
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC(1)-46	12	XXX	0.604	SA 358 GR 304 CL 1	SS	UT-19

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP A

DWG NO: RRC-101-4 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-22-78	ISSUED FOR USE	KMA	[illegible]	[illegible]
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMA	[illegible]	[illegible]



NOTES:

1. ACCESS TO WELD 12 RRC(1)-N2B-2 REQUIRES REMOVAL OF 12 RRC(1)-N2B-1PR.
2. WELD 12 RRC(1)-N2B-5 UTILIZES CAL BLOCK UT-103
3. WELD 12 RRC(1)-N2B-6 UTILIZES CAL BLOCK UT-102

REFERENCES

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 838 SH 1	REV 3
762 E 838 SH 2	REV 3
761 B 735	REV 6

CBI NUCLEAR CO.

52, REV 10, N2 NOZZLE ASSEMBLY

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: K.M.C.A.	DATE: 4-4-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

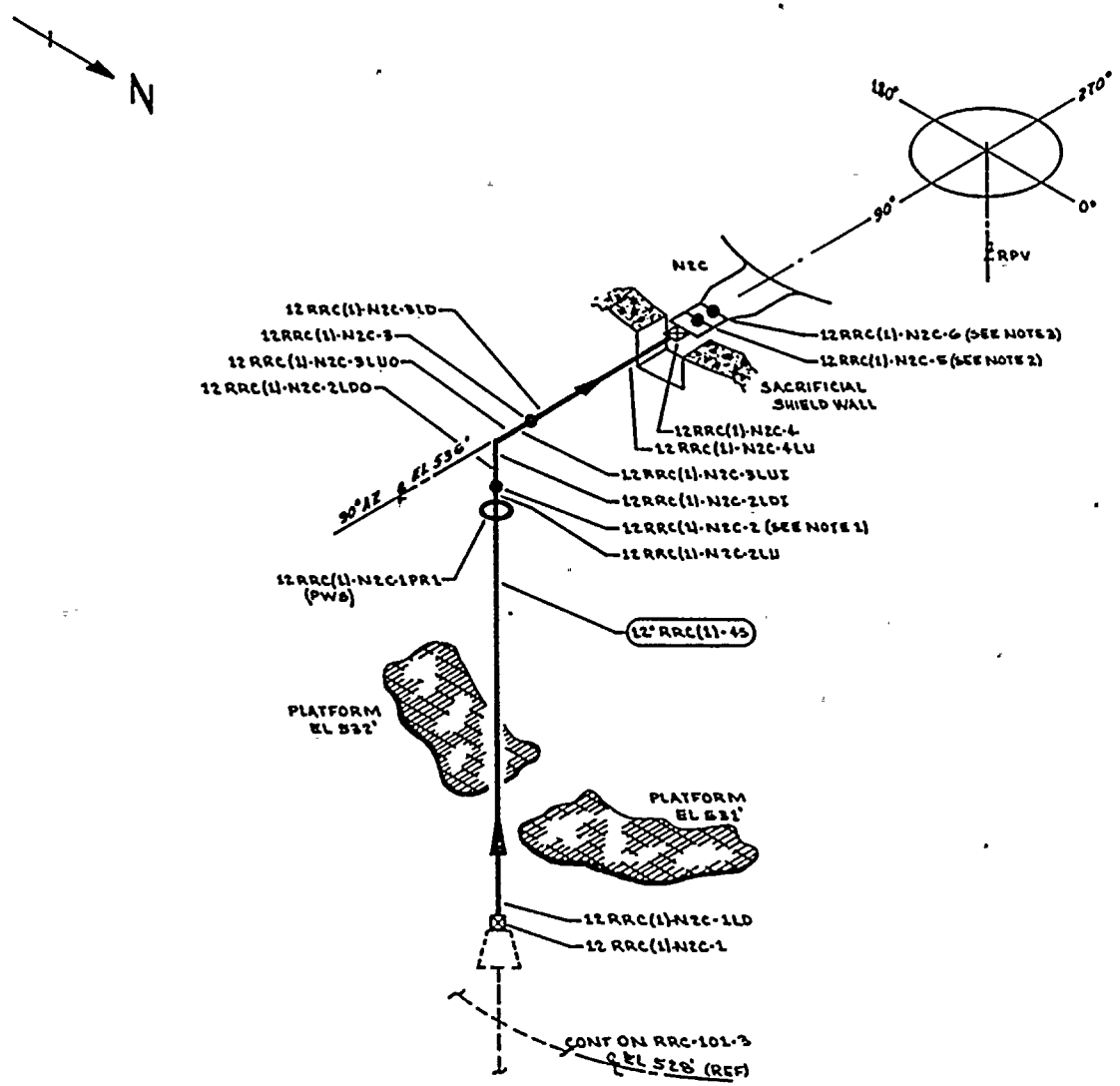
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC(1)-46	12	XXX	0.604	SA358 GR304 CL1	6%	UT-19

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP A

DWG NO: RRC-101-5 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMcA	DCJ	JLS
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMcA	DCJ	JLS



NOTES:

1. ACCESS TO WELD 12 RRC(1)-N2C-2 REQUIRES REMOVAL OF 12 RRC(1)-N2C-1PR.
2. WELD 12 RRC(1)-N2C-6 UTILIZES CAL BLOCK UT-103.
3. WELD 12 RRC(1)-N2C-6 UTILIZES CAL BLOCK UT-102.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 538 SH 1	REV 3
762 E 538 SH 2	REV 3
761 E 785	REV 6

CBI NUCLEAR CO.

52, REV 10, N2 NOZZLE ASSEMBLY

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K-M-C-A DATE: 4-4-18

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

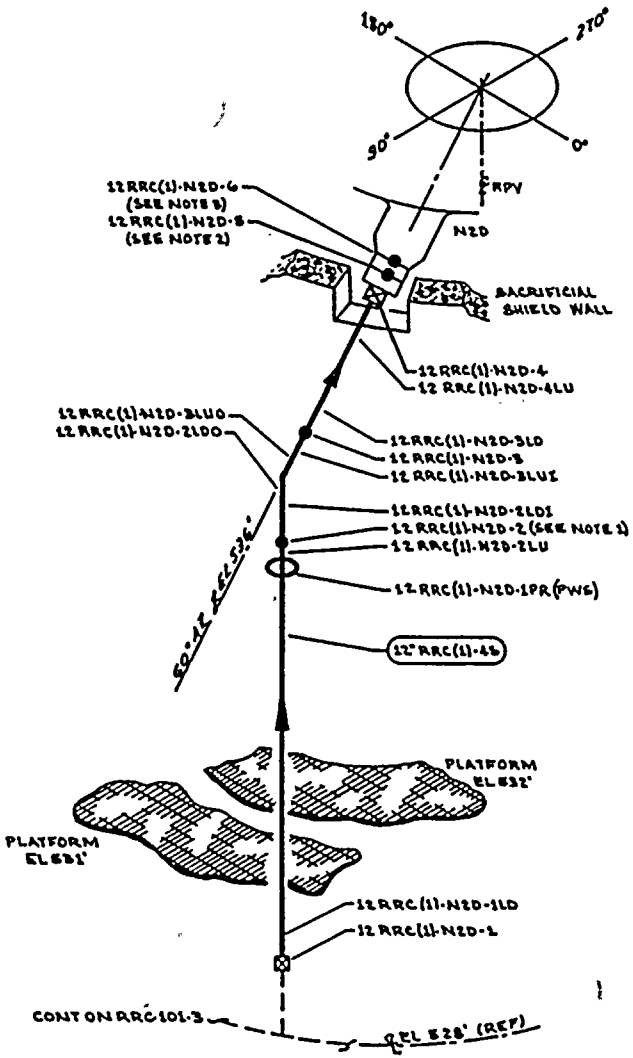
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC(1)-4S	12	XXX	0.604	SA 358 GR 304 CL1	8	UT-19

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP A

DWG NO: RRC-101-G REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-18	ISSUED FOR USE	K-M-C-A	DJT	TJH
A	5-14-18	ISSUED FOR INFORMATION ONLY	K-M-C-A	[illegible]	[illegible]



NOTES:

1. ACCESS TO WELD 12 RRC(1)-N2D-2 REQUIRES REMOVAL OF 12 RRC(1)-N2D-1PR.
2. WELD 12 RRC(1)-N2D-5 UTILIZES CAL BLOCK UT-102.
3. WELD 12 RRC(1)-N2D-6 UTILIZES CAL BLOCK UT-102.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 538 SH1	REV 3
762 E 538 SH2	REV 3
761 E 735	REV 6

CBI NUCLEAR CO.

52, REV 10, N2 NOZZLE ASSEMBLY

QUALITY CLASS: 1		ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: K. McA	DATE: 4-4-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

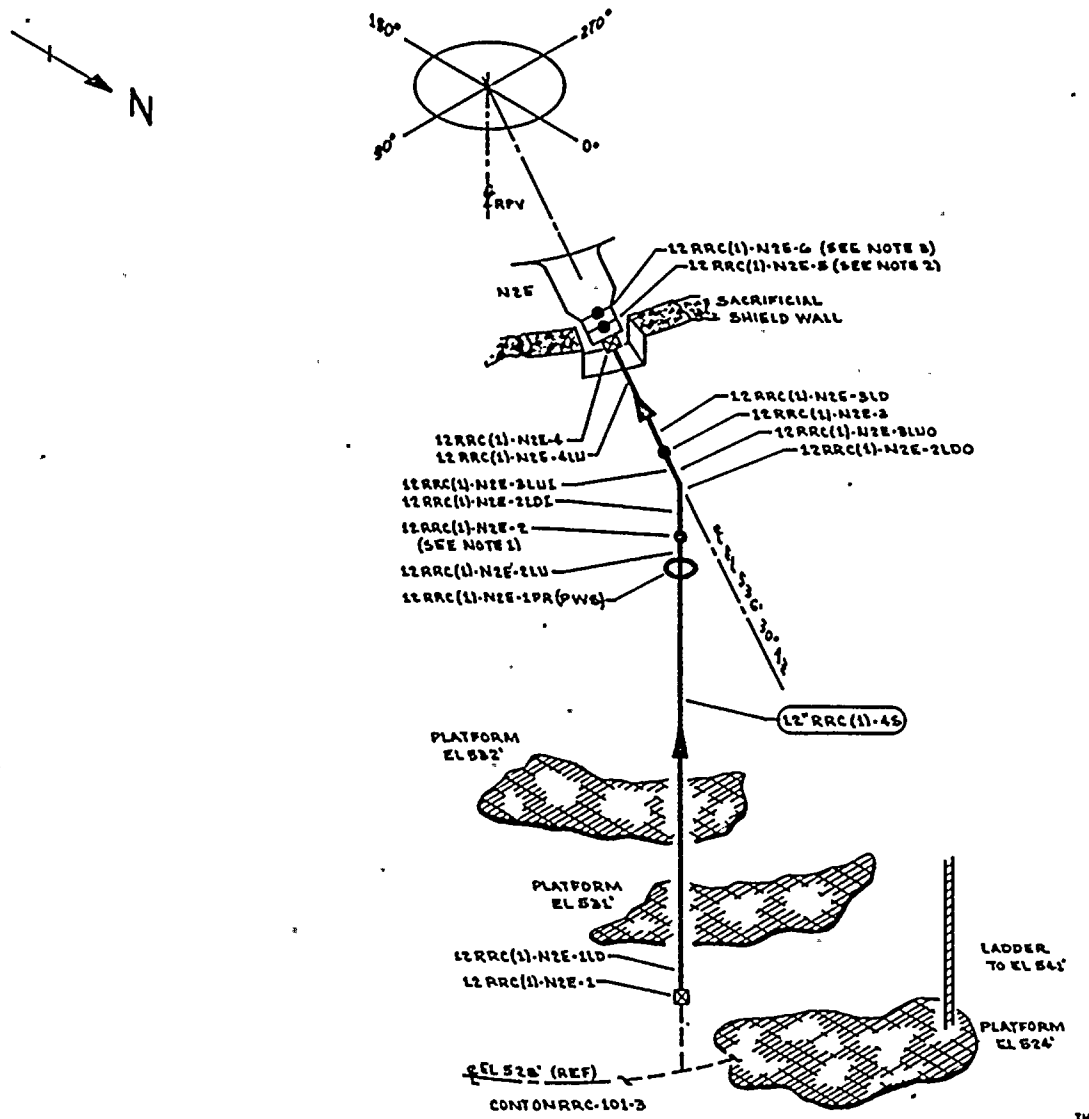
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC(1)-4S	12	XXX	0.604	SA 358 GR 304 CL 1	SS	UT-19

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP A

DWG NO: RRC-101-7 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMcA		
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMcA		



NOTES:

1. ACCESS TO WELD 12RRC(1)-N2E-2 REQUIRES REMOVAL OF 12RRC(1)-N2E-1PR.
2. WELD 12 RRC(1)-N2E-5 UTILIZES CAL BLOCK UT-103.
3. WELD 12 RRC(1)-N2E-6 UTILIZES CAL BLOCK UT-102.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

721 E 424	REV 2
762 E 538 SH 1	REV 3
762 E 538 SH 2	REV 3
761 E 735	REV 6

CBI NUCLEAR CO.

52, REV 10, N2 NOZZLE ASSEMBLY

QUALITY CLASS: 1		ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: K.M.C.A.	DATE: 4-4-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12"RRC(1)-46	12	XXX	0.604	SA 358 GR 304 CL 1	SS	UT-19

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP A

DWG NO: RRC-101-8 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMCA	[illegible]	[illegible]
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMCA	[illegible]	[illegible]

UMP- 2 PROGRAM PLAN AND SCHEDULE PAGE 3 of 25

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: IIA DESCRIPTION: REACTOR RECIRCULATION LOOP A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
		HANGER	B-K-2					X		QCS&I-002				
RRC-101	24RRC(2)A-6LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-6	PIPE TO TEE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-7	TEE TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-7LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-7/ 3/4PS-H018	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-7/ 3/4PX-1A	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A7PR2	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	24RRC(2)A-7PR3	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	24RRC(2)A-7PR4	PHS												NOTE 1

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

ING. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(2)A-8LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-8	PIPE TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-8LDO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-8LDI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-8/ 1PI(1)-45a	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-8/ 1PI(1)-45b	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-8/ 1PI(1)-45c	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-8/ 1PI(1)-45d	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-9LUO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

UMP- 2 PROGRAM PLAN AND SCHEDULE PAGE 5 of 25

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR RECIRCULATION LOOP A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(2)A-9LUI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-9	EL TO VALVE	B-J	X						UTP-10	UT-7			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-101	RRC-V-23A/ 3/4V-28A	VALVE DRAIN	B-P				X			QCS&I-002				
RRC-101	RRC-V-23A/ 3/4V-26A	VALVE VENT	B-P				X			QCS&I-002				
RRC-101	RRC-V-23A	VALVE BODY	B-N-2					X		QCS&I-002				
RRC-101	RRC-V-23A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RRC-101	24RRC-(2)A-10	VALVE TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-10LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-10/ 4RRC(8)-45	PIPE TO SWL	B-J		X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR RECIRCULATION LOOP A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	4RRC(8)2A-1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-31			
RRC-101	4RRC(8)2A-2	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-31			
RRC-101	4RRC(8)2A-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
RRC-101	24RRC(2)A-10/ 3/4TE-N028	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-10/ 4RRC(4)-45	PIPE TO SWL	B-J		X		X			PTP-1 QCS&I-002				
RRC-101	24RRC(2)A-10/ 3/4TE-N023	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-10/ 3/4dPT-N015	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-10/ 3/4TE-N035	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-11LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			

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INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(1)A-20PR3	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	24RRC(1)A-20PR4	PWS												NOTE 1
RRC-101	24RRC(1)A-20/3/4D014	SAMPLE CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(1)A-21LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-21	PIPE TO CROSS	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-22	CROSS TO RED	B-J	X						UTP-10	UT-7			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-1	CROSS TO PIPE	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-1LD	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-1PRI	PWS												NOTE 1

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 14 of 25

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR RECIRCULATION LOOP A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	16RRC(1)A-1PR2	HANGER	B-K-2					X		QCS&I-002				
RRC-101	16RRC(1)A-1/ 12RRC(1)-N2B	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-PR3	PWS												NOTE 1
RRC-101	16RRC(1)A-1PR4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	16RRC(1)A-1/ 12RRC(1)-N2A	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-2LU	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-2	PIPE TO CAP	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-3	CROSS TO PIPE	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-3LD	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 15 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: HA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	16RRC(1)A-3PR1	PHS												NOTE 1
RRC-101	16RRC(1)A-3PR2	HANGER	B-K-2						X	QCS&I-002				
RRC-101	16RRC(1)A-3/ 12RRC(1)H2D	PIPE TO SHL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-101	16RRC(1)A-3PR3	PHS												NOTE 1
RRC-101	16RRC(1)A-3PR4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	16RRC(1)A-3/ 12RRC(1)-H2E	PIPE TO SHL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-101	16RRC(1)A-4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-101	16RRC(1)A-4	PIPE TO CAP	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-101	12RRC(1)-H2A-1	SHL TO PIPE	B-J	X	X		X			UTP-1 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-H2A-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 16 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-H2A-/ 1PR	PWS												NOTE 1
RRC-101	12RRC(1)-H2A-/ 2LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2A-2	PIPE TO EL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2A-/ 2LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2A-/ 2LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2A-/ 3LUO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2A-/ 3LUI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2A-3	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 17 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2A-/3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2A-/4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2A-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2A-5	SEE TO SAFE END	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-103			
RRC-101	12RRC(1)-N2A-6	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-101	12RRC(1)-N2B-1	SNL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-/1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-/1PR	PWS												NOTE 1

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INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2B-/ 2LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2B-2	PIPE TO EL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2B-/ 2LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2B-/ 2LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2B-/ 3LUO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2B-/ 3LUI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2B-3	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2B-/ 3LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

MIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 19 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: HA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-H2B-/4LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2B-4	PIPE TO SEE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2B-5	SEE TO SAFE END	B-F	X						UTP-31	UT-103			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2B-6	SAFE END TO NOZZLE	B-F	X						UTP-31	UT-102			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2C-1	RED TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2C-/1LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-H2C-/1PR	PUS												NOTE 1
RRC-101	12RRC(1)-H2C-/2LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

NHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 20 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2C-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 21 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2C-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-5	SEE TO SAFE END	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-103			
RRC-101	12RRC(1)-N2C-6	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-101	12RRC(1)-N2D-1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/1PR	PWS												NOTE 1
RRC-101	12RRC(1)-N2D-/2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 22 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2D-/ 2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/ 2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/ 3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/ 3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/ 3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/ 4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 23 of 25

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL.	
RRC-101	12RRC(1)-N2D-5	SEE TO SAFE END	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-103			
RRC-101	12RRC(1)-N2D-6	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-101	12RRC(1)-N2E-1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 1PR	PWS												NOTE 1
RRC-101	12RRC(1)-N2E-/ 2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-2	PIPE TO EL.	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 24 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

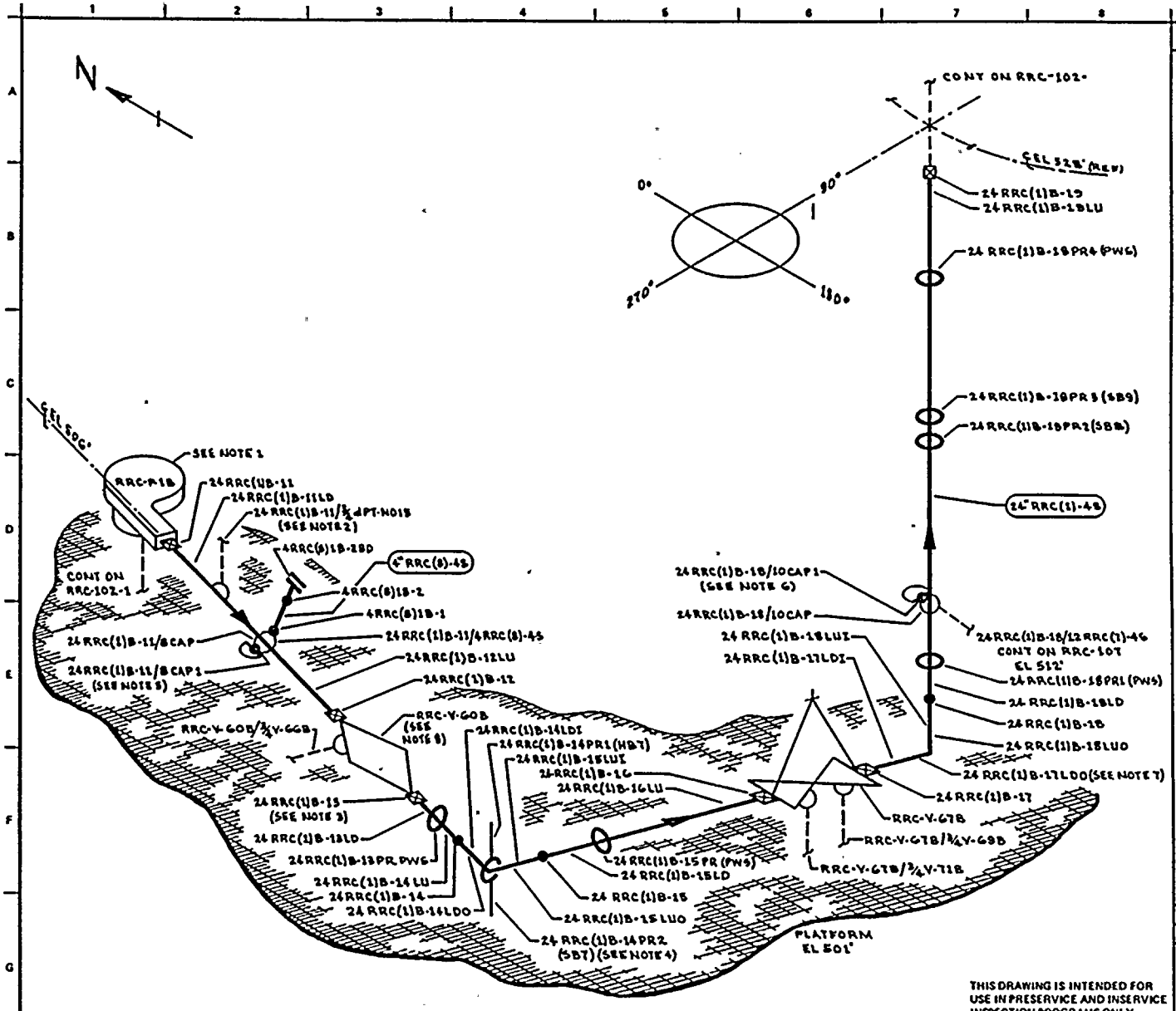
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2E-/ 2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-5	SEE TO SAFE END	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-103			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 25 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-H2E-6	SAFE END TO NOZZLE.	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			



NOTES:

1. SEE RRC-P-1B DETAIL DWG RRC-103 FOR PUMP SUPPORT DETAILS.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-41d) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. ACCESS TO WELD 24 RRC(1)B-13 REQUIRES REMOVAL OF 24 RRC(1)B-13PR.
4. SPECIAL CLAMP WITH HBT & SBT ATTACHMENTS.
5. WELD 24 RRC(1)B-11/8CAP1 IS FITTING TO FITTING.
6. WELD 24 RRC(1)B-18/10CAP1 IS FITTING TO FITTING.
7. WELD 24 RRC(1)B-17 IS FITTING TO FITTING.
8. RRC-V-60B HAS TWELVE (12) 2¾" X 15" BODY TO BONNET STUDS.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 838 SH 1	REV 3
762 E 838 SH 2	REV 3
761 E 735	REV 6
131 C 7588	REV 3
131 C 7589	REV 5
131 C 7592	REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RRC(1)-43	24	XXX	1.140	SA 358 GR 304 CL 1	88	UT-7
4" RRC(8)-48	4	40	0.237	SA 376 TP 304	58	UT-21

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-7-78	ISSUED FOR USE	KMcA	DCS	
A	5-9-78	ISSUED FOR INFORMATION ONLY	KMcA	DCS	

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMING | DRAWN: KMcA | DATE: 2-20-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND WASHINGTON 99352

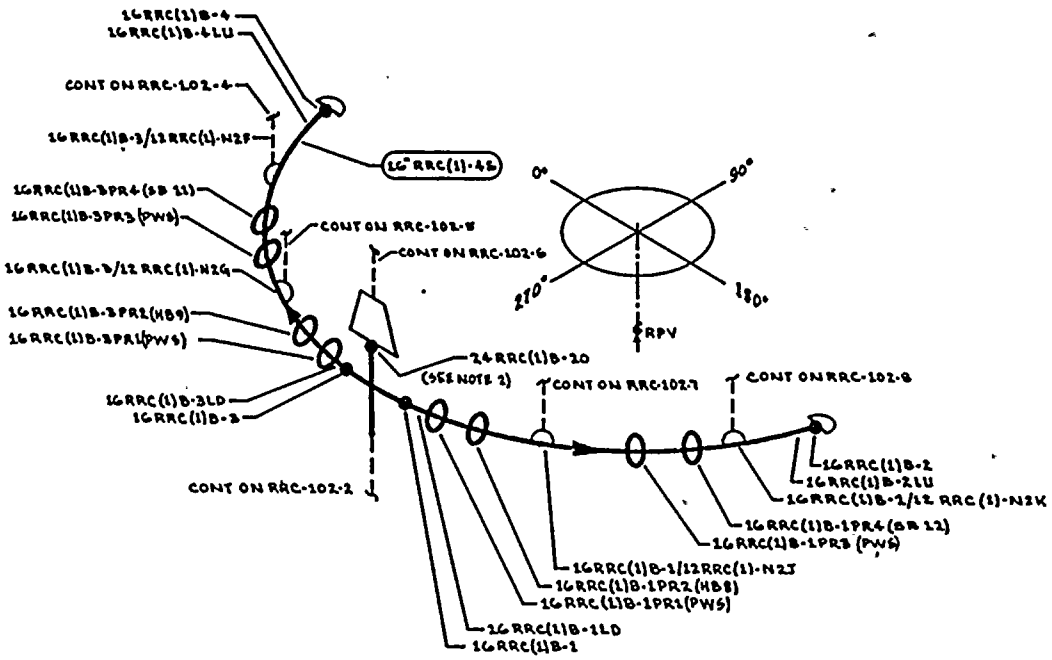
WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

REACTOR RECIRCULATION LOOP B

DWG NO: RRC-102-2 | REV 0



NOTES:

1. ACCESS TO WELDS 16RRC(1)B-1 THRU 4 & 24RRC(1)B-20 REQUIRES TEMPORARY SCAFFOLDING.
2. WELD 24RRC(1)B-20 IS FITTING TO FITTING.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 538 SH 1	REV 3
762 E 538 SH 2	REV 3
761 E 785	REV 6
131 C 7590	REV 1

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RRC(1)-45	24	XXX	1.140	SA 358 GR 304 CL1	SS	UT-7
16" RRC(1)-45	16	XXX	0.758	SA 358 GR 304 CL1	SS	UT-13

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMJ	DJ	
A	5-14-78	ISSUED FOR INFORMATION ONLY	KMJ	DJ	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: V. Mc A. | DATE: 3-30-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

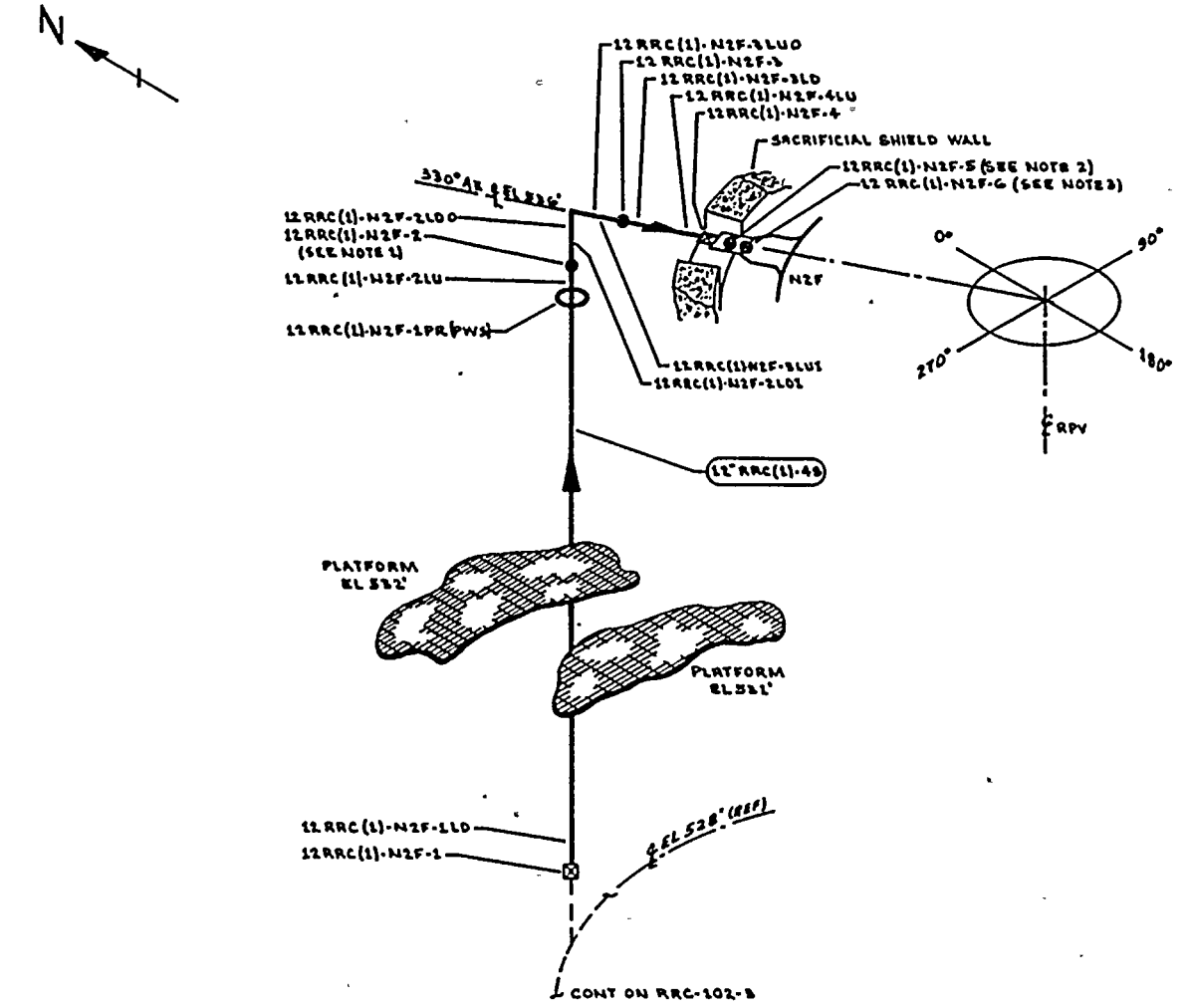
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

REACTOR RECIRCULATION LOOP B

DWG NO: RRC-102-3 | REV 0



NOTES:

1. ACCESS TO WELD 12 RRC(1)-N2F-2 REQUIRES REMOVAL OF 12 RRC(1)-N2F-1PR.
2. WELD 12 RRC(1)-N2F-5 UTILIZES CAL BLOCK UT-103.
3. WELD 12 RRC(1)-N2F-6 UTILIZES CAL BLOCK UT-102.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 538 SH 1	REV 3
762 E 538 SH 2	REV 3
761 E 735 "	REV 6

CBI NUCLEAR CO.

52, REV 10, N2 NOZZLE ASSEMBLY

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D TINAMINS	DRAWN: V. M. A.	DATE: 5-31-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

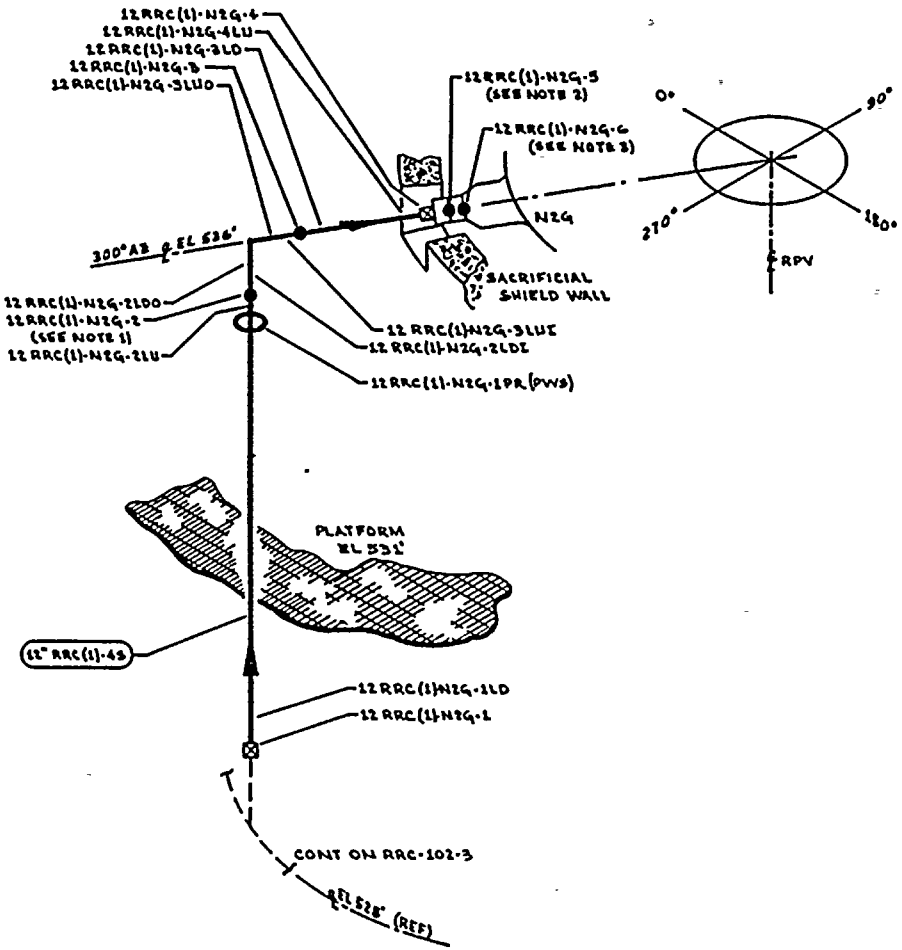
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC(1)-4B	12	XXX	0.604	SA 358 GR 304 CL 1	SS	UT-19

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP B

DWG NO: RRC-102-4 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	K.M.A	GW	
A	5-19-78	ISSUED FOR INFORMATION ONLY	K.M.A	DCS	



NOTES:

1. ACCESS TO WELD 12 RRC(1)-N2G-2 REQUIRES REMOVAL OF 12RRC(1)-N2G-1PR.
2. WELD 12RRC(1)-N2G-5 UTILIZES CAL BLOCK UT-103.
3. WELD 12 RRC(1)-N2G-6 UTILIZES CAL BLOCK UT-102.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 538 SH 1	REV 3
762 E 538 SH 2	REV 3
761 E 785	REV 6

CBI NUCLEAR CO.

52, REV 10. N2 NOZZLE ASSEMBLY.

QUALITY CLASS: 1		ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: V. McA	DATE: 3-31-78	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

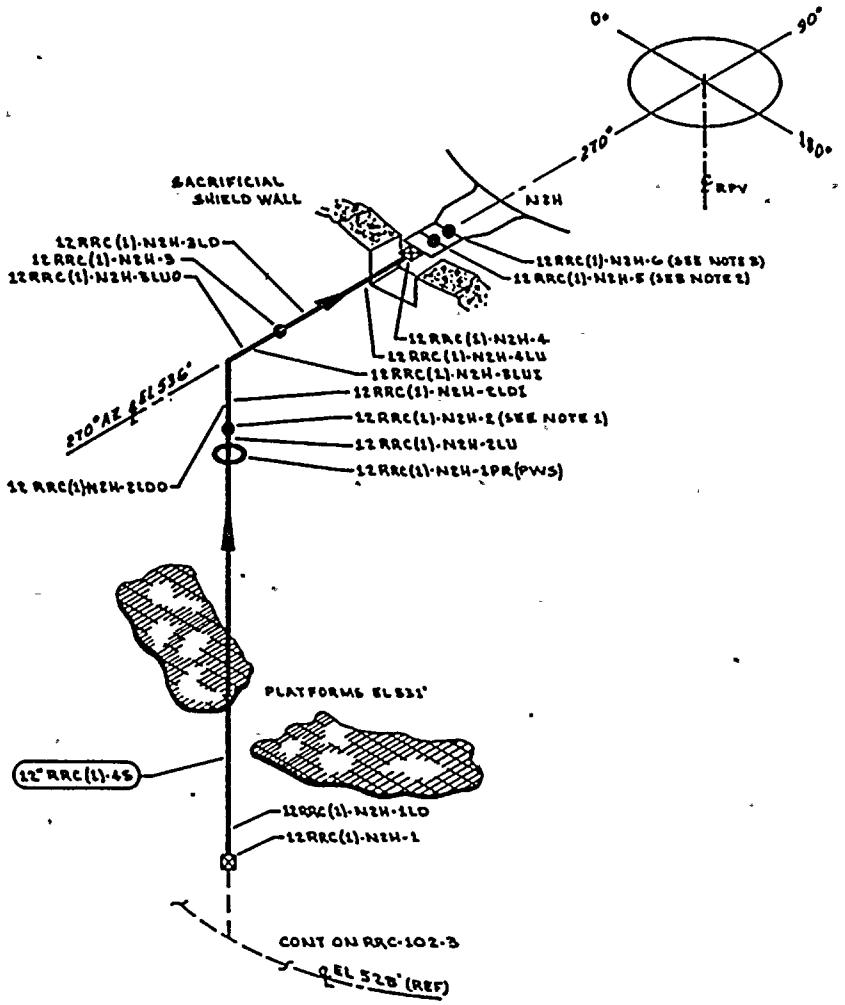
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC(1)-4S	12	XXX	0.604	SA 358 GR 304 CL 1	SS	UT-19

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP B

DWG NO: RRC-102-5 | REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11 27 78	ISSUED FOR USE	VMcA	RB	
A	5-19-78	ISSUED FOR INFORMATION ONLY	VMcA	[illegible]	[illegible]



NOTES:

1. ACCESS TO WELD 12RRC(1)-N2H-2 REQUIRES REMOVAL OF 12RRC(1)-N2H-1PR.
2. WELD 12RRC(1)-N2H-5 UTILIZES CAL BLOCK UT-103.
3. WELD 12RRC(1)-N2H-6 UTILIZES CAL BLOCK UT-102.

REFERENCES

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 838 SH 1	REV 3
762 E 588 SH 2	REV 3
761 E 785	REV 6

CBI NUCLEAR CO.

52, REV 10, N2 NOZZLE ASSEMBLY

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: K.M.C.L.	DATE: 3-31-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

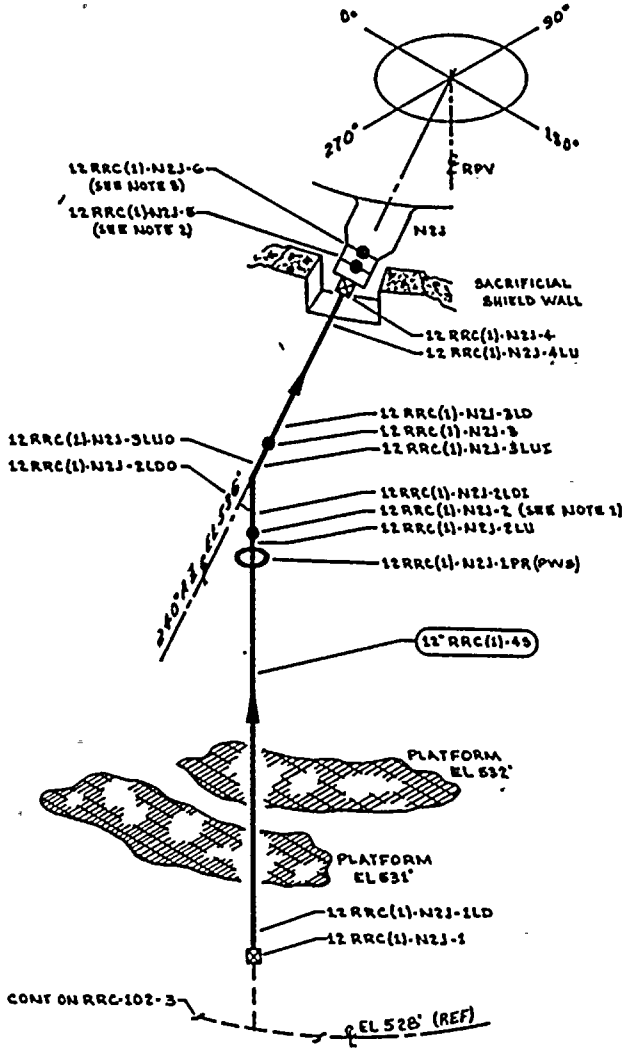
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC (1)-45	12	XXX	0.604	SA 358 GR 304 CL1	SS	UT-19

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP B

DWG NO: RRC-102-G | REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-17-78	ISSUED FOR USE	K.M.L.	DR	
A	5-19-78	ISSUED FOR INFORMATION ONLY	K.M.L.	DR	



NOTES:

1. ACCESS TO WELD 12RRC(1)-N2J-2 REQUIRES REMOVAL OF 12 RRC(1)-N2J-1PR.
2. WELD 12RRC(1)-N2J-5 UTILIZES CAL BLOCK UT-103.
3. WELD 12RRC(1)-N2J-6 UTILIZES CAL BLOCK UT-102.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424 REV 2
762 E 538 SH 1 REV 3
762 E 538 SH 2 REV 3
761 E 735 REV 6

CBI NUCLEAR CO.

52, REV 10, N2 NOZZLE ASSEMBLY

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K. McA. DATE: 3-31-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

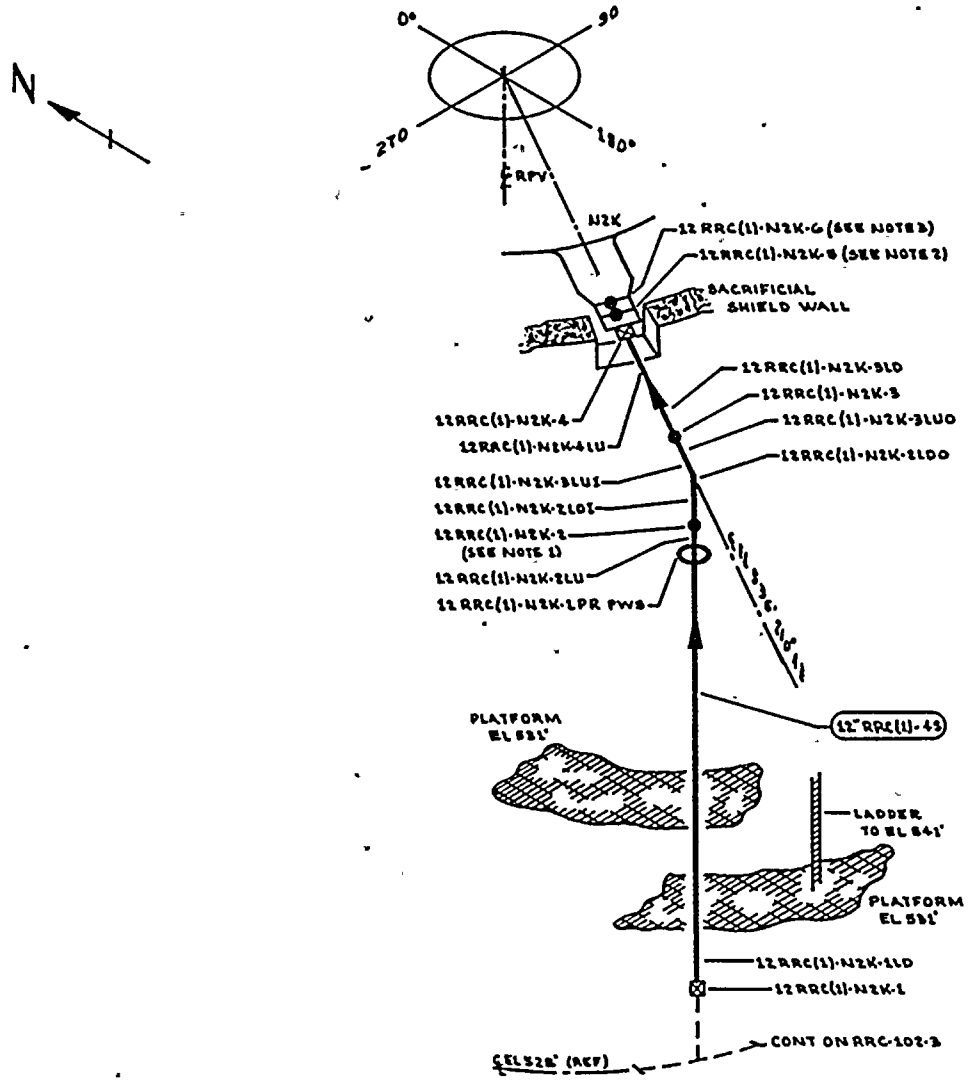
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC(1)-46	12	XXX	0.604	SA 358 GR 304 CL 1	SS	UT-19

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP B

DWG NO: RRC-102-7 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-2778	ISSUED FOR USE	KMcA	QAR	DJT
A	5-1978	ISSUED FOR INFORMATION ONLY	KMcA	QAR	DJT



NOTES:

1. ACCESS TO WELD 12RRC(1)-N2K-2 REQUIRES REMOVAL OF 12RRC(1)-N2K-1PR.
2. WELD 12RRC(1)-N2K-5 UTILIZES CAL BLOCK UT-103.
3. WELD 12RRC(1)-N2K-6 UTILIZES CAL BLOCK UT-102.

REFERENCES:
GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 538 SH 1	REV 3
762 E 538 SH 2	REV 3
761 E 735	REV 6

C&I NUCLEAR CO
52, REV 10, N2 NOZZLE ASSEMBLY

QUALITY CLASS: 1		ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: K. McA	DATE: 4-3-78	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RRC (1)-43	12	XXX	0.604	SA 358 GR 304 CL 1	SS	UT-19

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP B

DWG NO: RRC-102-B REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	K.McA		
A	5-19-78	ISSUED FOR INFORMATION ONLY	K.McA	JCJ	

WRP- 2 PROGRAM PLAN AND SCHEDULE PAGE 9 of 23

INTERVAL.: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: N/A DESCRIPTION: REACTOR RECIRCULATION LOOP B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-14LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-14LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-14PR1	HANGER	B-K-2					X		QCS&I-002				
RRC-102	24RRC(1)B-14PR2	SNUBBER	B-K-2						X	QCS&I-002				
RRC-102	24RRC(1)B-14LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-15LVI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-15	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-15LO	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-15PR	PHS												NOTE 1

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 10 of 23

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-16LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-16	PIPE TO VALVE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	RRC-V-67B/3/4 V-71B	VALVE DRAIN	B-P				X			QCS&I-002				
RRC-102	RRC-V-67B	VALVE BODY	B-M-2					X		QCS&I-002				
RRC-102	RRC-V-67B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RRC-102	RRC-V-67B/3/4 V-69B	VALVE VENT	B-P				X			QCS&I-002				
RRC-102	24RRC(1)B-17	VALVE TO EL	B-J	X						UTP-10	UT-7			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-17LDO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-17LDI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: N/A DESCRIPTION: REACTOR RECIRCULATION LOOP B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-18LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18 PRI	PHS												NOTE 1
RRC-102	24RRC(1)B-18 12RRC(7)-4S	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18/ 10 CAP	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18/ 10 CAP 1	SWL TO CAP	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			FITTING TO FITTING
RRC-102	24RRC(1)B-18PR 2	SNUBBER	B-K-2						X	QCS&I-002				

NMP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 12 of 23

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: REACTOR RECIRCULATION LOOP B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-18PR 3	SNUBBER	B-K-2						X	QCS&I-002				
RRC-102	24RRC(1)B-18PR4	PHS												NOTE 1
RRC-102	24RRC(1)B-19LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-19	PIPE TO CROSS	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-3	CROSS TO PIPE	B-J	X						UTP-10	UT-13			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-20	CROSS TO RED	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-1	CROSS TO PIPE	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-1LD	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-PR1	PHS												NOTE 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	16RRD(1)B-1PR2	HANGER	B-K-2					X		QCS&I-002				
RRC-102	16RRC(1)B-1/ 12RRC(1)-N2J	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-1PR3	PWS												NOTE 1
RRC-102	16RRC(1)B-1PR4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-102	16RRC(1)B-1/12 RRC(1)-N2K	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-2LU	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-2	PIPE TO CAP	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-3	TEE TO PIPE	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-3LD	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-3PR1	PWS												NOTE 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	16RRC(1)B-3PR2	HANGER	B-K-2					X		QCS&I-002				
RRC-102	16RRC(1)B-3/12 RRC(1)N2G	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-3PR3	PWS												NOTE 1
RRC-102	16RRC(1)B-3PR4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-102	16RRC(1)B-3/12 RRC(1)-N2F	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-4LU	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-4	PIPE TO CAP	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2F-1	SWL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2F-1LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

VHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 15 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2F-1PR	PHS												NOTE 1
RRC-102	12RRC(1)-N2F-2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: N/A DESCRIPTION: REACTOR RECIRCULATION LOOP B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2F-3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-5	SEE TO SAFE END	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-103			
RRC-102	12RRC(1)-N2F-6	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-102	12RRC(1)-N2G-1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-1PR	PHS												NOTE 1

WHP- 2

INTERVAL: BASELINE

PERIOD: N/A

PROGRAM PLAN AND SCHEDULE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DESCRIPTION: REACTOR RECIRCULATION LOOP B

DATE: 1/8/79

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2G-2 LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-2 LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)N2G-2 LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)N2G-3 LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-3 LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-3 LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 18 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2G-4 LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-5	SEE TO SAFE END	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-103			
RRC-102	12RRC(1)-N2G-6	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-102	12RRC(1)-N2H-1	RED TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)N2H-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2H-1PR	PWS												NOTE 1
RRC-102	12RRC(1)-N2H-2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 19 of 23

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: N/A DESCRIPTION: REACTOR RECIRCULATION LOOP B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2H-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2H-2 LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2H-2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2H-3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2H-3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2H-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2H-3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2H 4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 20 of 23

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR RECIRCULATION LOOP B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2H-4	PIPE TO SEE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2H-5	SEE TO SAFE END	B-F	X						UTP-10	UT-103			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)N2H-6	SAFE END TO NOZZLE	B-F	X						UTP-10	UT-102			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-1	SHL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-1LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-1PR	PHS												NOTE 1
RRC-102	12RRC(1)-N2J-2LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-2	PIPE TO EL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

WRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 1/8/79

PERIOD: II/A

DESCRIPTION: REACTOR RECIRCULATION LOOP B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2J-2 LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-3 LUO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-3 LUI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-3	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-3 LO	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-4 LO	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-4	PIPE TO SEE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-5	SEE TO SAFE END	B-F	X						UTP-31	UT-103			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 22 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79.

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2J-6	SAFE END TO NOZZLE	B-F	X						UTP-31	UT-102			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-1	SWL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-1 PR	PWS												NOTE 1
RRC-102	12RRC(1)-N2K-2 LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-2	PIPE TO EL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-2 LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-2 LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)N2K-3 LU	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

UNP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

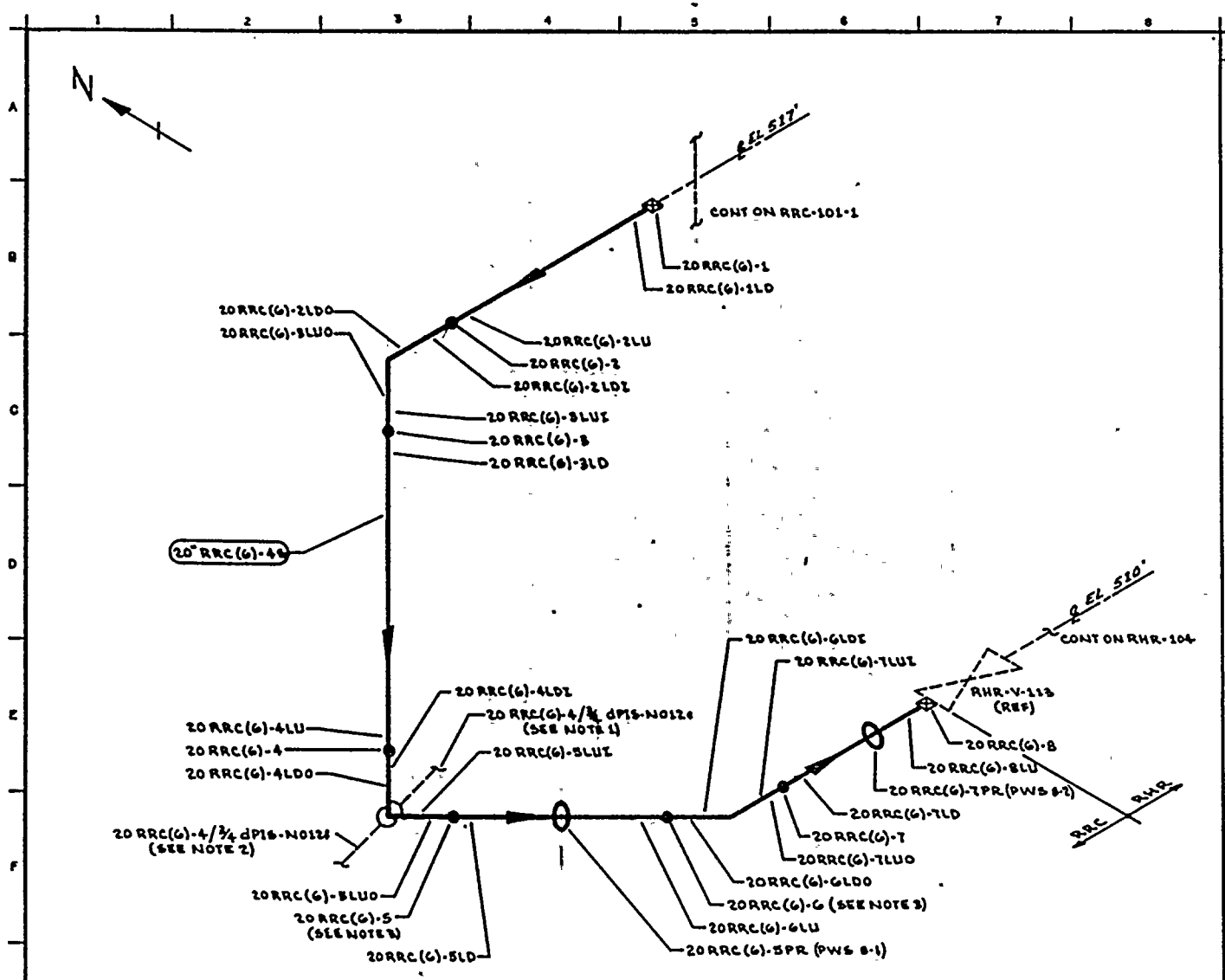
DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: REACTOR RECIRCULATION LOOP B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-3LUI	EL SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)-N2K-3	EL TO PIPE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)-N2K-3 LO	PIPE SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)-N2K-4 LU	PIPE SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)-N2K-4	PIPE TO SEE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)-N2K-5	SEE TO SAFE END	B-F	X						UTP-31 PTP-1 QCS&I-002	UT-103			
					X		X							
RRC-102	12RRC(1)-N2K-6	SAFE END TO NOZZLE	B-F	X						UTP-31 PTP-1 QCS&I-002	UT-102			
					X		X							



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-74c) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-74f) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. ACCESS TO WELDS 20 RRC(G)-5 & 20 RRC(G)-6 REQUIRES REMOVAL OF 20RRC(G)-5PR.

REFERENCED:

BOVEE & CRAIL ISOMETRIC
RRC-565-1 REV 5

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RRC(G)-4S	20	80	1.031	SA 358 GR 304	SS	9

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-18	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-18	ISSUED FOR INFORMATION ONLY	[illegible]	DJ	RWP

QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D TIMMINS | DRAWN: K McA | DATE: 7-14-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR SHUTDOWN COOLING SUCTION INTERTIE WITH RRC LOOP A

DWG NO: RRC-105 | REV 0

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(6)-4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHR SHUTDOWN COOLING SUCTION INTERTIE WITH RRC LOOP A

REVISION: 0

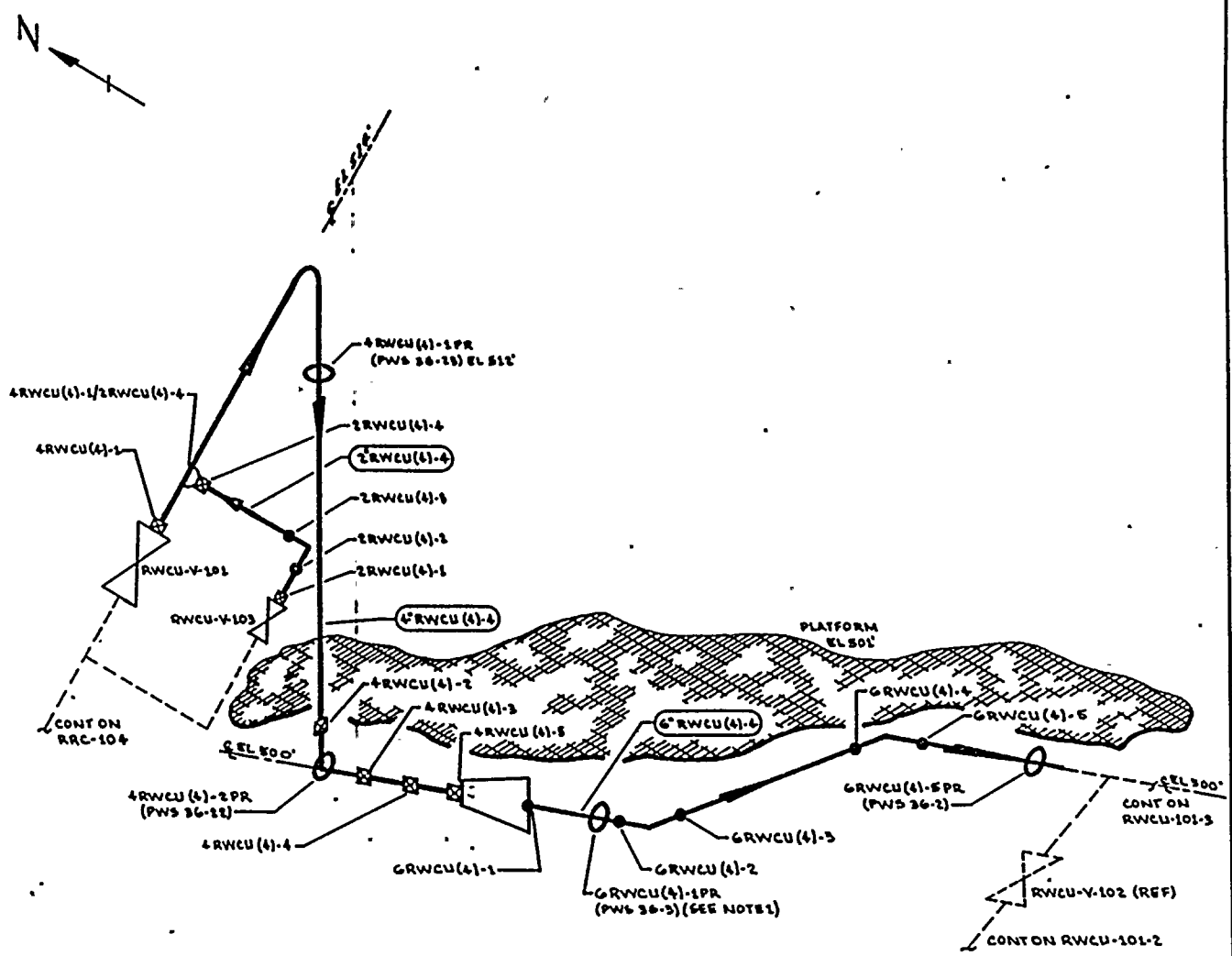
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-105	20RRC(6)-5LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-5	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-5LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-5PR	PWS												NOTE 1
RRC-105	20RRC(6)-6LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-6	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-6LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-6LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			

UMP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(6)-4S | DATE: 1/8/79

PERIOD: MA | DESCRIPTION: RHR SHUTDOWN COOLING SUCTION INTERTIE WITH RRC LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-105	20RRC(6)-7LUI	EL SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-7LUO	EL SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-7	EL TO PIPE	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-7LD	PIPE SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-7PR	PWS												NOTE 1
RRC-105	20RRC(6)-8LU	PIPE SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-8	PIPE TO VALVE	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				

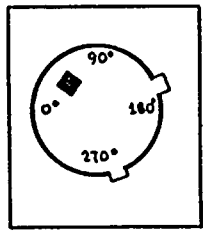


NOTES:

1. ACCESS TO WELD GRWCU(4)-2 REQUIRES REMOVAL OF GRWCU(4)-1PR.

REFERENCES

BOVEE & CRAIL ISOMETRIC
RWCU-811-1.2 REV 3



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K.M.L.A. DATE: 6-22-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

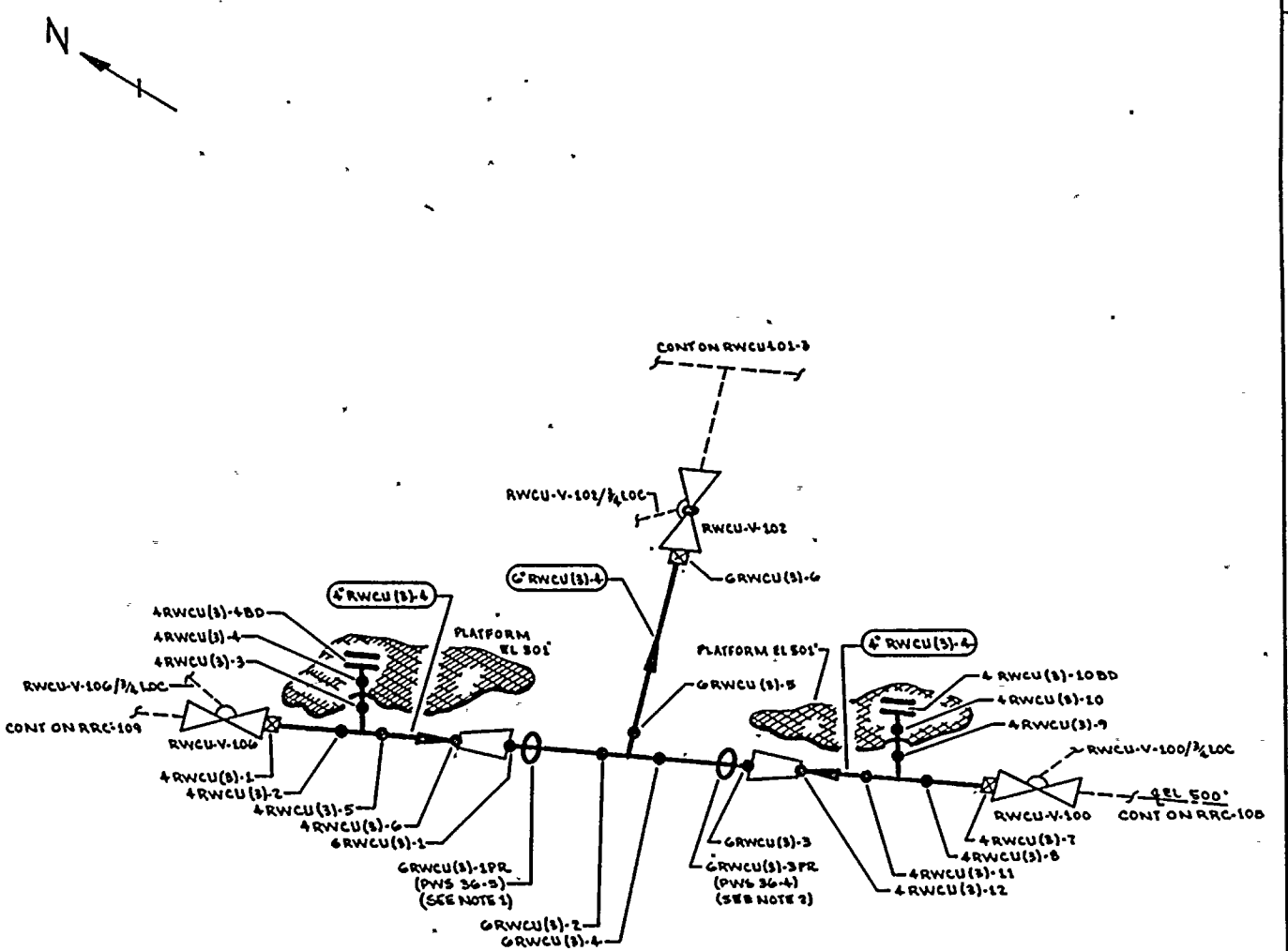
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4"RWCU(4)-4	4	80	0.337	SA 106 GRB	CS	UT-29
6"RWCU(4)-4	6	80	0.432	SA 106 GR B	CS	UT-27
2" RWCU(4)-4	2	160	0.343	SA 106 GRB	CS	NA

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RPV DRAIN TO RWCU

DWG NO: RWCU-101-1 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-13-78	ISSUED FOR USE	KMA	KMA	DJP
A	9-11-78	ISSUED FOR INFORMATION ONLY	KMA	DJ	DJP

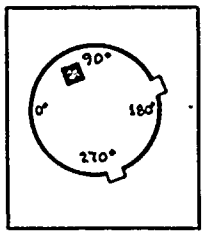


NOTES:

1. ACCESS TO WELD GRWCU(3)-1 REQUIRES REMOVAL OF GRWCU(3)-1PR.
2. ACCESS TO WELD GRWCU(3)-3 REQUIRES REMOVAL OF GRWCU(3)-3PR.

REFERENCES:

BOVEE & CRAIL ISOMETRIC RWCU-812-1 REV 4



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: GA KUGLER	DRAWN: K.M & A — DATE: 6-28-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4"RWCU(3)-4	4	80	0.337	SA 106 GR B	CS	UT-29
6"RWCU(3)-4	6	80	0.432	SA 106 GR B	CS	UT-27

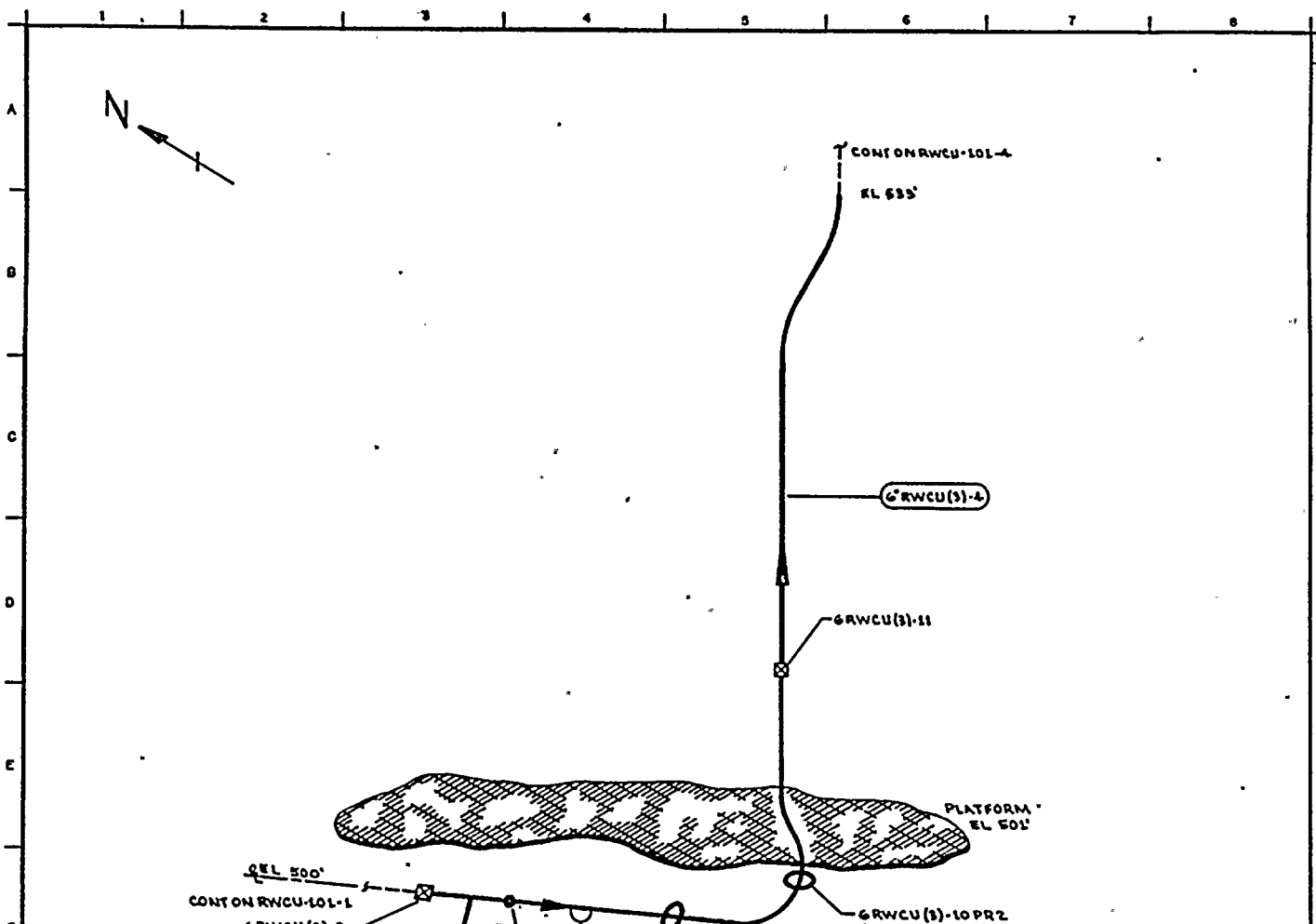
NO	DATE	REVISION	BY	CHKD	APPVD
0	11-22-78	ISSUED FOR USE	K.M.A		
1	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.A	D.J	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

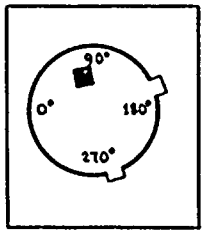
TITLE:
RRC LOOP SUPPLIES TO RWCU

DWG NO: RWCU-101-2 REV 0



NOTES:

REFERENCES:
BOVEE & CRAIL ISOMETRIC
RWCU-812-2 REV 4



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: V. M. & A.	DATE: 6-23-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RWCU(3)-4	6	80	0.432	SA 106 GR B	C5	UT-27

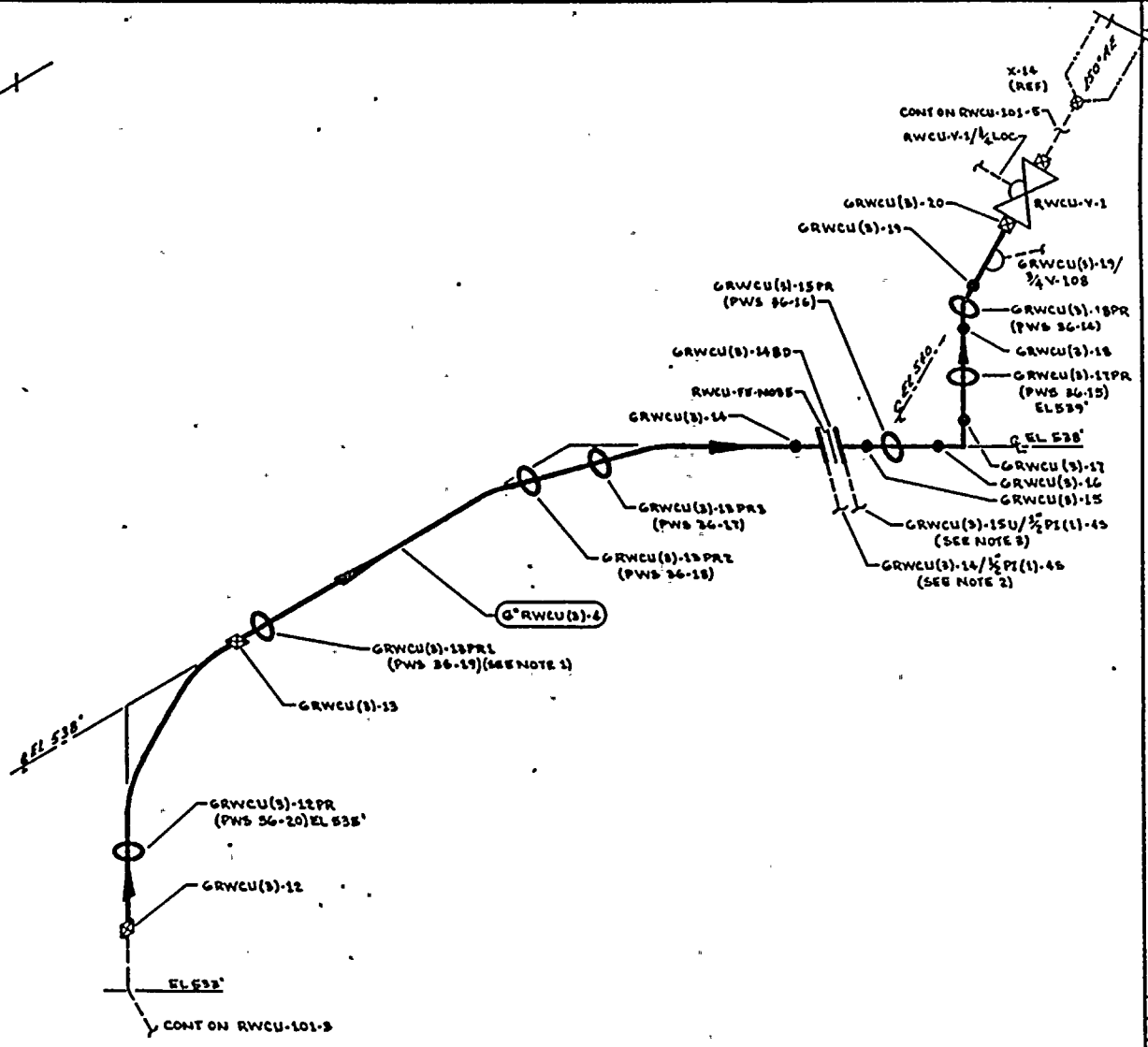
NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE			
A	9-22-78	ISSUED FOR INFORMATION ONLY			

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RWCU MAIN HEADER FROM RRC

DWG NO: RWCU-101-3 REV 0

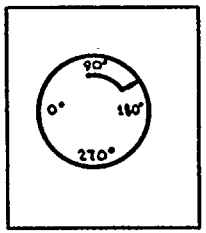


NOTES:

1. ACCESS TO WELD GRWCU(3)-13 REQUIRES REMOVAL OF GRWCU(3)-13PR1.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-79a) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-79b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RWCU-812-3.7 REV 2



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K.M.C.A. DATE: 6-26-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RWCU(3)-4	6	80	0.432	SA 106 GR B	CS	UT-27

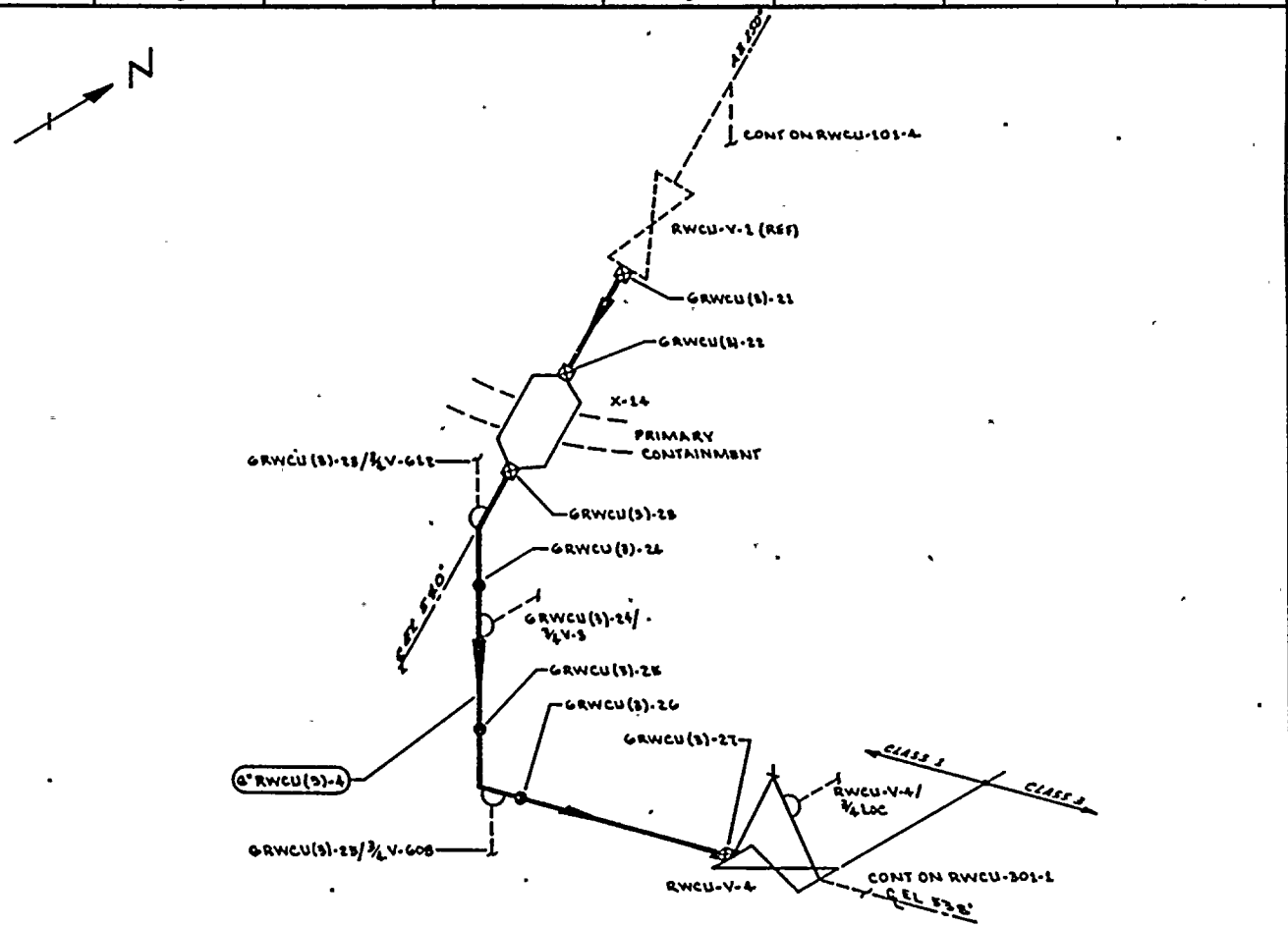
NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

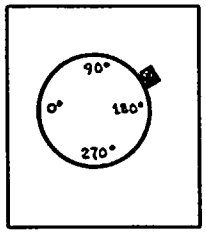
TITLE: RWCU MAIN HEADER FROM RRC

DWG NO: RWCU-101-4 REV 0



NOTES:

REFERENCES:
BOVEE & CRAIL ISOMETRIC
RWCU-B12-B.13 REV 2



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D TIMMINS	DRAWN: K.M.L.A	DATE: 6-26-18

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RWCU(3)-4	6	80	0.432	SA 106 GR B	CS	UT-27

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RWCU MAIN HEADER FROM RRC

DWG NO: RWCU-101-5 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-11-19	ISSUED FOR USE	K.M.L	MRB	
A	9-12-18	ISSUED FOR INFORMATION ONLY	K.M.L	DJ	RWP

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHCU(4)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RPV DRAIN TO RHCU | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	6RHCU(4)-1	RED TO PIPE	B-J	X						UTP-10	UT-27			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-1PR	PHS												NOTE 1
RHCU-101	6RHCU(4)-2	PIPE TO EL	B-J	X						UTP-10	UT-27			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-3	EL TO PIPE	B-J	X						UTP-10	UT-27			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-4	PIPE TO EL	B-J	X						UTP-10	UT-27			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-5	EL TO PIPE	B-J	X						UTP-10	UT-27			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-5PR	PHS												NOTE 1
RHCU-101	4RHCU(4)-1	VALVE TO PIPE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(4)-1/ 2RHCU(4)-4	PIPE TO HOL	B-J		X					PTP-1				
							X			QCS&I-002				

HHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHCU(4)-4, RHCU(3)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RPV DRAIN TO RHCU

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	4RHCU(4)-1PR	PHS												NOTE 1
RHCU-101	4RHCU(4)-2	PIPE TO EL	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(4)-2PR	PHS												NOTE 1
RHCU-101	4RHCU(4)-3	EL TO PIPE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(4)-4	PIPE TO PIPE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(4)-5	PIPE TO RED	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	RHCU-V-106	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	RHCU-V-106/ 3/4 LOC	STEM LEAK OFF	B-P				X			QCS&I-002				
RHCU-101	4RHCU(3)-1	VALVE TO PIPE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(3)-2	PIPE TO TEE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHCU(3)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RPV DRAIN TO RHCU

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	4RHCU(3)-3	TEE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RHCU-101	4RHCU(3)-4	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RHCU-101	4RHCU(3)-4BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	4RHCU(3)-5	TEE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RHCU-101	4RHCU(3)-6	PIPE TO RED	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RHCU-101	RHCU-V-100	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	RHCU-V-100/ 3/4 LOC	STEM LEAK OFF	B-P				X			QCS&I-002				
RHCU-101	4RHCU(3)-7	VALVE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RHCU-101	4RHCU(3)-8	PIPE TO TEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			

UNIP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 4 of 4

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHCU(3)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RPV DRAIN TO RHCU

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	ISUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	4RHCU(3)-9	TEE TO PIPE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(3)-10	PIPE TO FLANGE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(3)-10BD	FLANGE TO BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	4RHCU(3)-11	TEE TO PIPE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(3)-12	PIPE TO RED	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	2RHCU(4)-1	VALVE TO PIPE	B-J		X					PTP-1				
							X			QCS&I-002				
RHCU-101	2RHCU(4)-2	PIPE TO EL	B-J		X					PTP-1				
							X			QCS&I-002				
RHCU-101	2RHCU(4)-3	EL TO PIPE	B-J		X					PTP-1				
							X			QCS&I-002				
RHCU-101	2RHCU(4)-4	PIPE TO NOL	B-J		X					PTP-1				
							X			QCS&I-002				

9.0--VISUAL EXAMINATION PROGRAM

9.0 INTRODUCTION

Preservice visual examination for the WNP-2 Class 1, 2 and 3 reactor coolent systems will be performed by WPPSS personnel to ASME Section XI rules as published in the 1974 edition with addenda through Summer 1975. These examination activities will be carried out separately from the volumetric and surface nondestructive examination activities being conducted by the NDE contractor, Lambert-MacGill-Thomas, Inc.

The visual preservice examinations involve primarily support structures, hangers and snubbers. The system pressure test program is described in 9.2.4 below. The program presented here subdivides the visual examinations into four categories: VT-1, 2, 3 and 4 as described by ASME Code Section XI, 1977 edition and defined in 9.2 below.

The WPPSS visual program includes procedures and a training program described herein which have been prepared in response to the requirements for metallurgical, mechanical and hydraulic integrity described in the 1977 edition of Section XI of the ASME Code.

9.2 PROGRAM DESCRIPTION

Visual examinations are organized into a four-part program corresponding to each of the "VT" categories.

Inspection plans will be based on Inspection Boundary Diagrams and the Weld and Component Identification Diagrams found in Sections 7.0 and 8.0 of this plan.

The four visual examination categories of ASME Section XI, 1977 edition, are defined as:

Method VI-1--Visual examination for component mechanical and metallurgical condition to document the presence, if any, of cracks, wear, corrosion, erosion or physical damage. This examination is performed on bolting and pump and valve body interiors.

Method VT-2 Visual examination for evidence of leakage from pressure retaining components during pressure or functional tests. This examination is performed on both exempt and nonexempt pressure retaining components.

Method VT-3--Visual examination to locate mechanical and structural misalignment, loose connections, wear or erosion, or any visual evidence that indicates equipment degradation. Examinations may include the use of dimensional measuring instruments or torquing devices to confirm visual observations. This examination is performed on rigid hangers, supports and restraints.

Method VT-4--Visual examination to confirm functional adequacy, verification of settings or freedom of motion for components or devices such as mechanical and hydraulic snubbers, components support, pumps, valves and spring loaded and constant weight hangers.

9.2.1 Class 1 Components

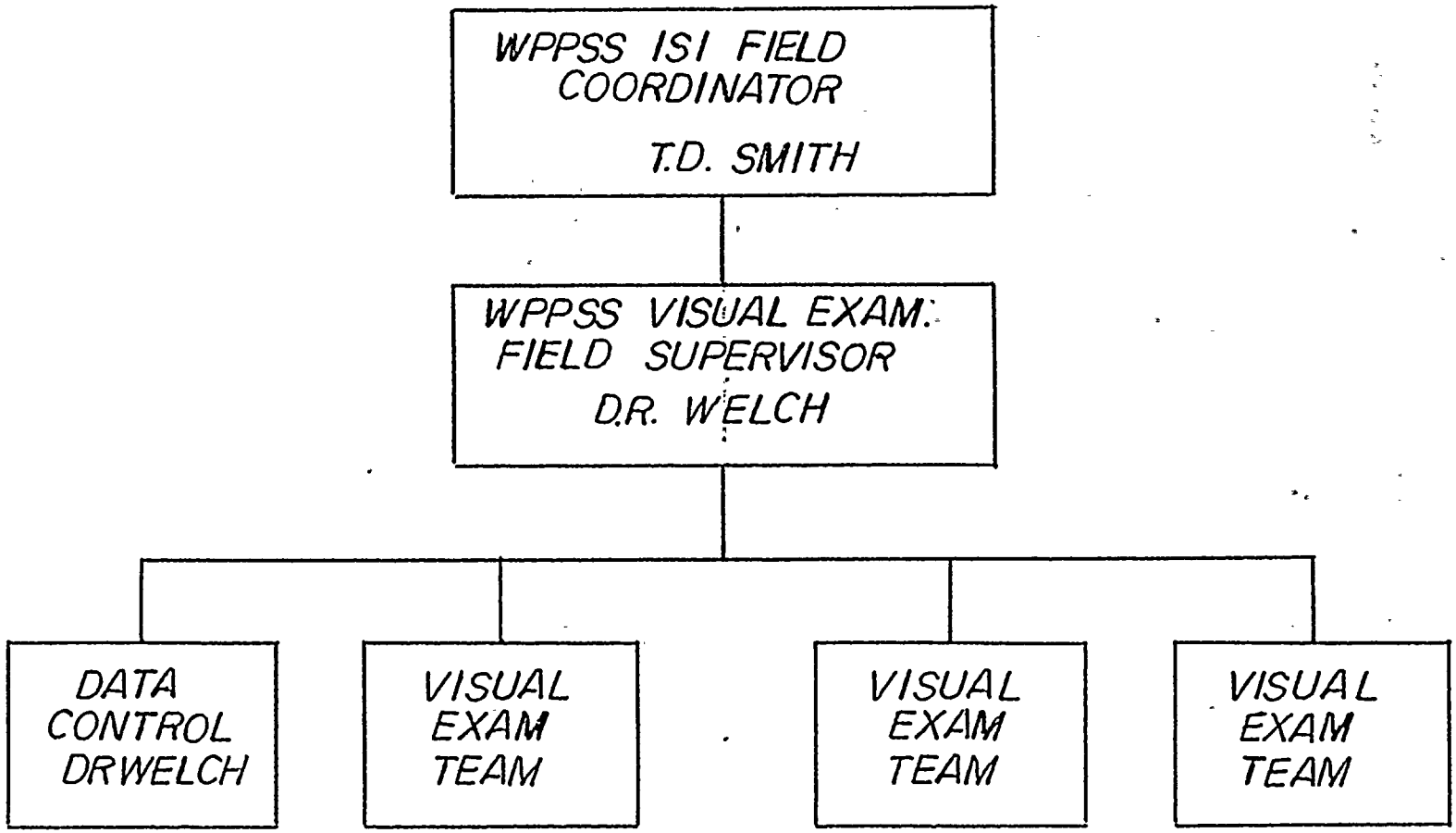
The Class 1 components requiring visual examination per Table IWB-2600 of Section XI will be examined as outlined in this program plan and listed in the schedule tables in Section 8.0.

The component ISI identification numbers shown on the program plan and schedule tables in Section 8.0 and the corresponding weld and component identification diagrams will be used on all data sheets and records.

9.2.2 Class 2 Components

The Class 2 components requiring visual examination per Table IWC-2600 of Section XI will be examined as outlined in this program plan and

FIG 9.1
VISUAL EXAMINATION
WPPSS SITE ORGANIZATION



Date 1/8/79
Revision 0

10.0--PROCEDURES

This section contains a listing of the procedures which will be used to govern the preservice examination activities described in this Program Plan. The actual procedures are found in Volume 2. The revision of each procedure is given in the listing as a means of ensuring the use of the latest approved procedure by the examiners. Also described in this section are the exceptions to the reference code (see Section 4.0) which are reflected in the procedures.

10.1 PROCEDURE LIST

The procedure list at the end of this section identifies each of the procedures applicable to the WNP-2 Preservice Inspection activities and its current revision number. The tab number for each procedure location in Volume 2 is also given for convenience.

10.2 CODE EXCEPTIONS

The procedures comply to the extent practical to the reference code. However, there are some exceptions to that code which are stated below, along with the justification for each exception:

1. Use of Appendix III From the Winter 1975 Addenda

   The ultrasonic examination procedure governing the examination of piping welds, UT-10, reflects the guidelines of ASME Section XI, Appendix III, entitled "Ultrasonic Examination Method for Class 1 and 2 Piping Systems Made From Ferritic Steels", which was introduced with the Winter 1975 addenda to 1974 Edition. This Appendix is assumed to be acceptable to the NRC based on the absence of any concern expressed over its use in the draft revision to 10CFR50 published by the NRC in April of 1978, which proposes to accept the addenda to Section XI through the Summer 1978 addenda to the 1977 Edition. The use of this Appendix has also been approved at a number of other nuclear power plants.

The use of Appendix III for piping welds is considered by the Supply System to be more appropriate than the use of Appendix I to the ASME Section XI Code, which is applicable per the 1974 Edition of Section XI through the Summer 1975 addenda, as Appendix III is written to be specifically applicable to piping welds, whereas Appendix I is intended for use with thick-walled components such as pressure vessels, and was not intended for use with piping welds. Furthermore, Appendix III will apparently be applicable for subsequent inservice examinations, so it's use during the preservice examinations will provide for a better data comparison in the future.

2. Use of the Evaluation Criteria From Subarticle IWB-3000 of the Winter 1975 Addenda for Evaluation of Indications in Class 1 and Class 2 Piping

The Winter 1975 addenda to the 1974 edition of ASME Section XI introduced evaluation criteria for the examination of austenitic and ferritic piping welds, examination categories B-F and B-J, which were not previously included in Section XI. It is anticipated that it is these evaluation criteria that will be subsequently imposed inservice, as there are no known objections to those criteria which have been expressed by the NRC in their draft revision to 10CFR50 referenced in Item 1 above. Class 2 examinations will also be evaluated to IWB-3000.

3. Paragraph I-4230, Frequency Calibration - 12 Hour Vs. 4 Hour Calibration Check

This paragraph states that the calibration of the ultrasonic examination instrument system shall be checked at intervals not to exceed 4 hours. The Supply System will perform system calibration checks at intervals not to exceed 12 hours when using remote mechanized equipment. All other provisions of the paragraph will be complied with. This practice is justified in that it is impractical when conducting mechanized examinations to

Date 1/8/79

Revision 0

PROCEDURE TITLE	NUMBER	REV.	TAB
Weld Marking Procedure	MEP-2	0	22
Visual Examinations of Nuclear Power Plant Components	QCS&I-002	0	23
Document Control for the WNP-2 Preservice Inspection (Volumetric and Surface Examinations)	QA-28	0	24
Preservice Inspection	INP 3-3	0	25
Examination Data	INP 3-10	0	26
Control of Deficiencies	INP 3-11	0	27
Control of Inservice Inspection Activities	EDP-9.0	0	28
Preparation of PSI Plan	EDP-9.2	0	29
Conduct of Preservice Examinations	EDP-9.3	1	30
WNP-2 PSI Notification of Reportable Indication	QA-31	0	31

TABLE 11-1

RPV ULTRASONIC CALIBRATION BLOCKS

Sheet 1 of 2
Date 1/8/79
Revision 0

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-101	UTCB-201-1	NOZZLE TO SAFE-END, N1	CS-SS	22"	1 29/32"	SA-508, SA-336
UT-102	UTCB-201-2	NOZZLE TO SAFE-END, N2, N4, N5, N6, N16	CS-INCO	12"	1 1/8" 1 5/16"	SA-508, SB-166
UT-103	UTCB-201-1	SAFE-END TO SAFEEND EXTENSION, N2	INCO-SS	12"	15/16" 7/8"	SB-166, SA-336
UT-104	UTCB-202-1	NOZZLE TO SAFE-END, N3	CS-CS	24"	1 5/8"	SA-508 Gr. B
UT-105	UTCB-201-1	SAFE-END TO STUB, N4	INCO-INCO	12"	15/16"	SB-166-70
UT-106	UTCB-201-3	SAFE-END OR STUB TO SAFE-END EXTENSION, N4, N5, N6, N16	INCO-CS	10/12"	13/16"	SB-166, SA-508
UT-107	UTCB-202-2	NOZZLE TO FLANGE, N7, N18	CS-CS	6"	1 3/4"	SA-508
UT-108	UTCB-202-1	NOZZLE TO FLANGE, N8	CS-CS	4"	1 1/4"	SA-508
UT-109	UTCB-201-4	NOZZLE TO SAFE-END, N9	CS-SS	4"	3/4"	SA-508, SA-336
UT-110	UTCB-202-2	NOZZLE TO SAFE-END, N10	CS-CS	5"	3/4"	SA-508
UT-115	UTCB-203	TOP HEAD DOLLAR PLATES	CS	N/A	3 5/8"	SA-533, Gr. B
UT-116	UTCB-204	TOP HEAD RADIAL PLATES	CS	N/A	5 1/8"	SA-533, Gr. B
UT-117	UTCB-205	BOTTOM HEAD DOLLAR PLATES	CS	N/A	8"	SA-533, Gr. B
UT-118	UTCB-206	BOTTOM HEAD RADIAL PLATES	CS	N/A	6 3/4"	SA-533, Gr. B

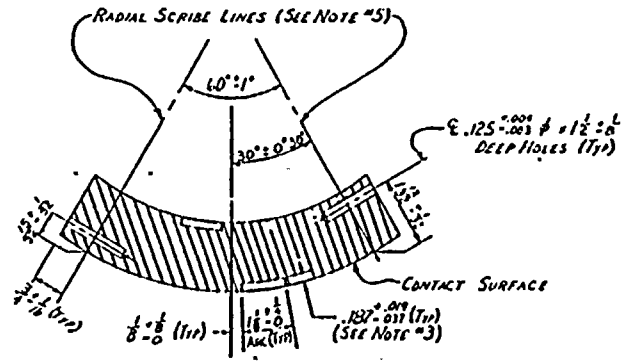
TABLE 11-1

RPV ULTRASONIC CALIBRATION BLOCKS

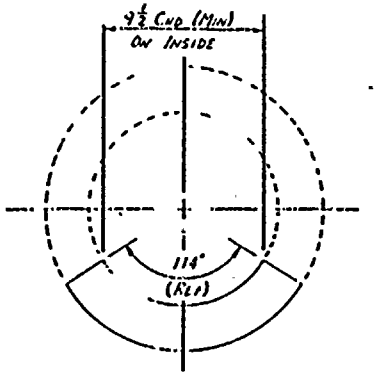
Date 1/8/79

Revision 0

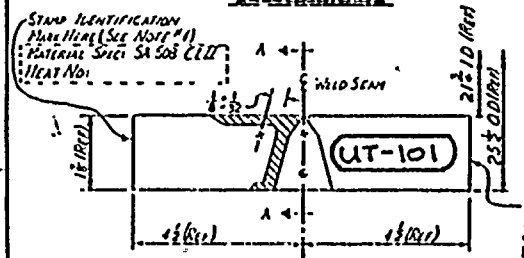
BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-119	UTCB-207	SHELL COURSE #1	CS	N/A	9 3/4"	SA-533, Gr. B
UT-120	UTCB-208	SHELL COURSE #2 & #3	CS	N/A	6 9/16"	SA-533, Gr. B
UT-121	UTCB-209	SHELL COURSE #4	CS	N/A	7 1/4"	SA-533, Gr. B
UT-122	UTCB-210	NOZZLE INNER RADIUS	CS	N/A	LATER	SA-533, Gr. B
UT-130	UTCB-210	RPV STUDS	CS	6"	N/A	SA-540, Gr. 23
UT-132	UTCB-211	RPV NUTS	CS	6"	N/A	SA-540, Gr. 23



SECTION A-A

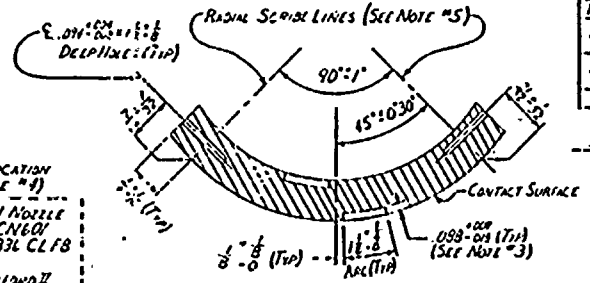


CUTTING ARRANGEMENT FROM UT BLOCK TUBE ASSEMBLY (1-D)



UT BLOCK (2-A)

UT APPLICATION: N1 NOZZLE
CONTRACT No.: 5-CN601
MATERIAL SPEC: SA336 CL F8
HEAT No.:
VESSEL NAME: HANFORD II
CBIN A/C No.: 2-A



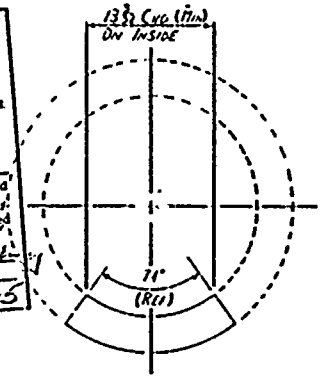
SECTION B-B

NO.	MARK	QTY	DESCRIPTION	MATERIAL	SPEC
1	2-A		UT BLOCK FOR N1 NOZZLE TO SAFE END (N1 TUBE ASSY (1-A))	SA 336 CL F8	END
1	2-C		UT BLOCK FOR N2 N3 N5 N6 NOZZLE TO SAFE END (N2 TUBE ASSY (1-C)) FINAL MACH CALIB. BLOCK PER STD-37-0 EXCEPT STENCIL PER NOTE "6.	SA 336 CL F8	N2 N3 N5 N6 SAFE END
1	2-D		UT BLOCK FOR N2 NOZZLE TO SAFE END (N2 TUBE ASSY (1-D)) FINAL MACH CALIB. BLOCK PER STD-10-0 EXCEPT STENCIL PER NOTE "6.	SA 336 CL F8	N2 SAFE END
1	2-E		UT BLOCK FOR N4 SAFE END TO SAFE END (N4 TUBE ASSY (1-E)) FINAL MACH CALIB. BLOCK PER STD-38-0 EXCEPT STENCIL PER NOTE "6.	SA 336 CL F8	N4 SAFE END
1	2-F		UT BLOCK FOR N2 SAFE END TO SAFE END (N2 TUBE ASSY (1-F))	SA 336 CL F8	N2 SAFE END
1	2-G		UT BLOCK FOR N1 N5 N6 NOZZLE TO SAFE END (N1 TUBE ASSY (1-G)) FINAL MACH CALIB. BLOCK PER STD-38-0 EXCEPT STENCIL PER NOTE "6.	SA 336 CL F8	N1 N5 N6 SAFE END

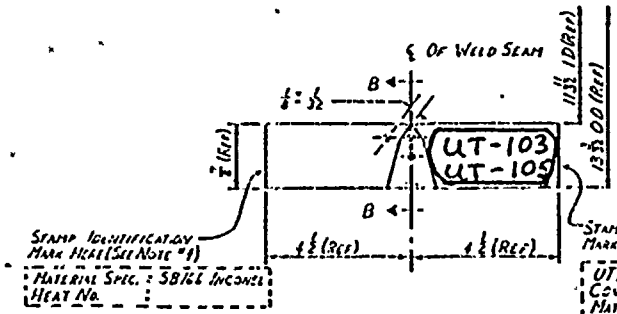
NOTES:

1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION
2. CONTACT SURFACE TO BE FREE OF FUSE AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
3. NOTCHES TO BE MACHINED WITH ½ NOM FLAT END MILL.
4. METAL STAMP IDENTIFICATION MARKS WITH .12 INCH MIN HIGH CHARACTERS.
5. SCRIBE .010 ±.005 DEEP LINES RADIALLY ON BOTH ENDS OF BLOCK AND THEN ACROSS CONTACT SURFACE.
6. IDENTIFICATION MARKS, AS DENOTED ON STANDARDS, SHALL BE MODIFIED, CHANGING "UT APPLICATION & PIECE MARK" FOR BLOCKS ⓐⓑⓒ & ⓒ.

GENERAL ELECTRIC
NUCLEAR ENERGY DIVISION
☐ Approved per comments. Revise and resubmit for approval.
☐ Approved with Comments. Review and resubmit W/FINAL FORM.
☐ Refer to EDS No.
☐ Approved. No further action req'd.
☐ Approved. Submit certified copy.
☐ Certified by Seller and Approved by Buyer.
Reviewed by A. Rowe
Date 6/13/79
VFF No. 3133-519-5



CUTTING ARRANGEMENT FROM UT BLOCK TUBE ASSEMBLY (1-A)



UT BLOCK (2-F)

MATERIAL SPEC.: SB166 INCONEL
HEAT No.

UT APPLICATION: N2 SAFE END
CONTRACT No.: 5-CN601
MATERIAL SPEC: SA336 CL F8
HEAT No.
VESSEL NAME: HANFORD II
CBIN A/C No.: 2-F

RELEASED FOR USE
CHICAGO BRIDGE & IRON CO

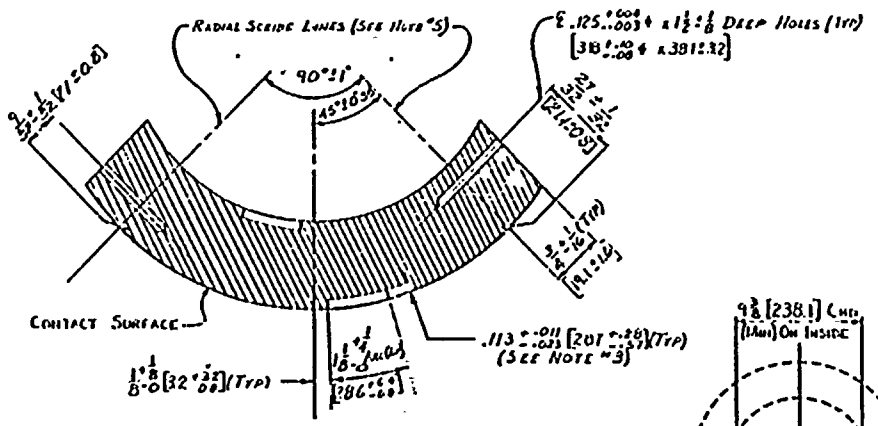
SAFE-37-0	NOZZLE UT BLOCK ASSY
STD-38-0	NOZZLE UT BLOCK
STD-10-0	NOZZLE UT BLOCK

WPPSS

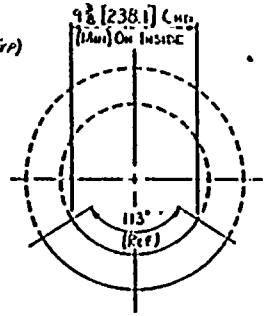
NOZZLE UT BLOCK MACHINING N1 & N2

205-ALLOY | VFF 3133-519 | 5-CN601 | 2 | 1

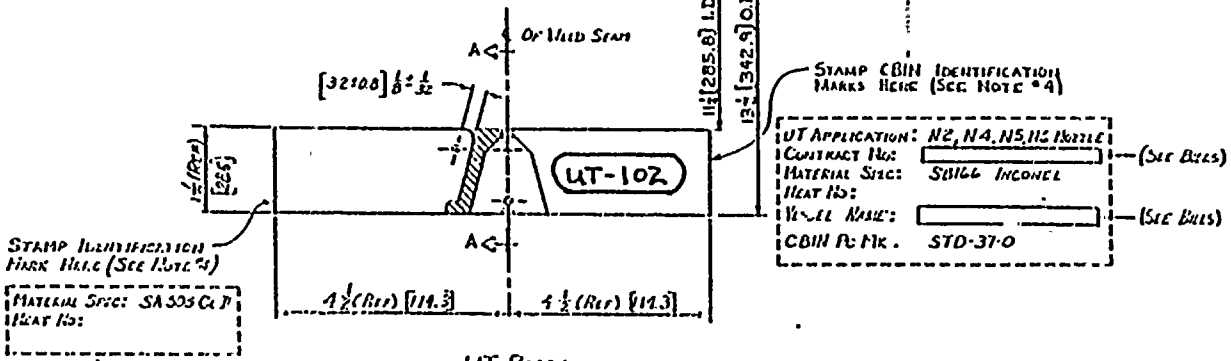
UTCB-201-1 | REV. 0



SECTION A-A



SCRIBING ARRANGEMENT FROM UT BLOCK TOOL ASSEMBLY



UT BLOCK

ITEM NO.	MARK	QTY.	DESCRIPTION	WEIGHT EACH	WEIGHT TOTAL
1	STD-37-0		UT BLOCK		

NOTES:

1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.
2. CONTACT SURFACE TO BE FREE OF RUST AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
3. NOTCHES TO BE MACHINED WITH 1/8 [3.0] FLAT END MILL.
4. METAL STAMP IDENTIFICATION MARKS HERE 1/2 [12.0] HIGH MIN. HIGH CHARACTERS.
5. SCRIBE .010 ±.005 [0.25 ±0.13] DEEP LINES RADIALLY ON BOTH ENDS OF BLOCK AND THEN ACROSS CONTACT SURFACE.
6. ALL DIMENSIONS IN BRACKETS [ ] ARE MILLIMETERS.
7. INCH DIMENSIONS TO HAVE PRECEDENCE OVER METRIC DIMENSIONS

GENERAL ELECTRIC
NUCLEAR ENERGY DIVISION
[ ] Disapproved per comments
Revise and resubmit for approval.
[ ] Approved with Comments
Revise and resubmit WITHOUT COPIES
[ ] Ticket to LOS No.
[X] Approved No further submittal required
[ ] Approved Submit certified copy
[ ] Certified by Seller and Approved by Buyer.
Reviewed by
Date
VTI No.

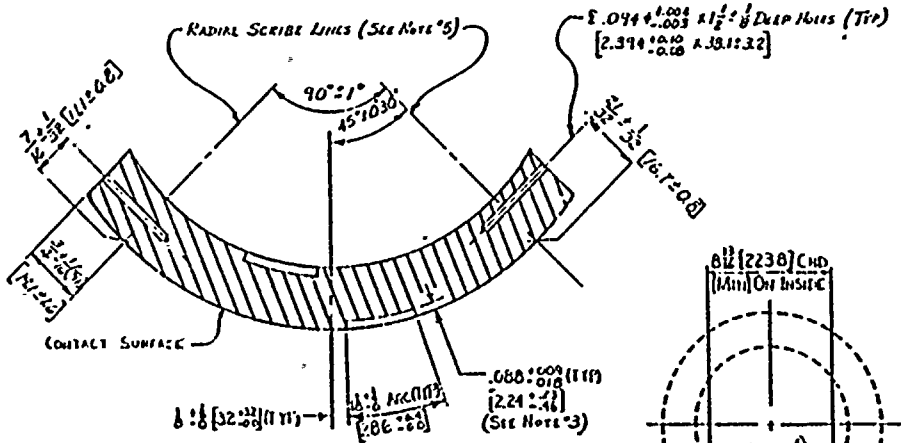
GEORGE G. BRUCE & ENG. CO.

WPPSS

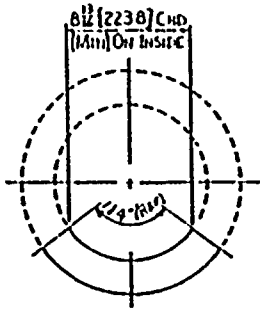
NOZZLE UT BLOCK
N2, N4, N5, N6 NOZZLES TO SAFE END
N16

APPROVED STD-37-0
UTCB-201-2
REV 0

ITEM NO.	MARK	QTY.	DESCRIPTION	MATERIAL	WGT.	
1	STD-38-0		UT BLOCK SK			



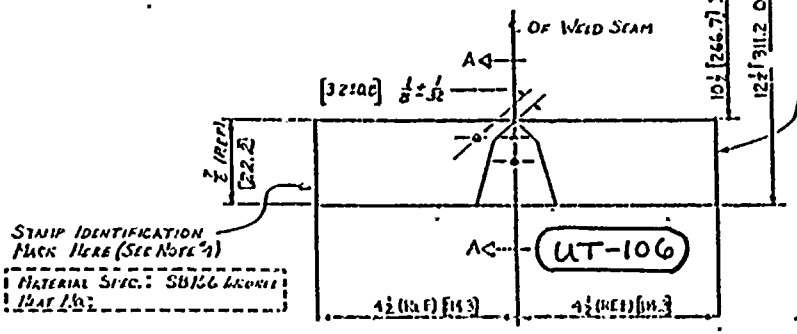
SECTION A-A



CUTTING ARRANGEMENT FROM UT BLOCK PIPE ASSEMBLY

NOTES:

1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.
2. CONTAC. SURFACE TO BE FREE OF RUST AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
3. NOTCHES TO BE MACHINED WITH ⅛ [3.2] NOM. FLAT END MILL.
4. METAL STAMP IDENTIFICATION MARKS HERE .12 [3.0] INCH MIN. HIGH CHARACTERS.
5. SCRIBE .010±.005 [0.25±0.13] DEEP LINES RADIALLY ON BOTH ENDS OF BLOCK AND THEN ACROSS CONTACT SURFACE.
6. ALL DIMENSIONS IN BRACKETS [ ] ARE MILLIMETERS.
7. INCH DIMENSIONS TO HAVE PRECEDENCE OVER METRIC DIMENSIONS.



MATERIAL SPEC.: SB166 UNLESS HEAT No.:

UT BLOCK

UT APPLICATION: N4, N5, N6, SAFE END
CONTRACT No.: (SEE BILL)
MATERIAL SPEC.: SA 508 CL 3
HEAT No.:
VESSEL NAME: (SEE BILL)
CBIN FL FIX: STD 38-0

GENERAL ELECTRIC
NUCLEAR ENERGY BUSINESS
[ ] DISAPPROVED (See comments. Resubmit for approval)
[ ] APPROVED WITH COMMENTS. (Revise and resubmit for APPROVAL)
[ ] SELECTED DESIGN
[ ] APPROVED (Release acknowledged)
[ ] APPROVED (See attached sheet)
[ ] CERTIFIED BY SELLER AND APPROVED BY BUYER.
Reviewed by:
Date:
VTF No.:

WPPSS

NOZZLE UT BLOCK
(N4, N5, N6 SAFE END TO SAFE END EXT.
N16 EXT.)

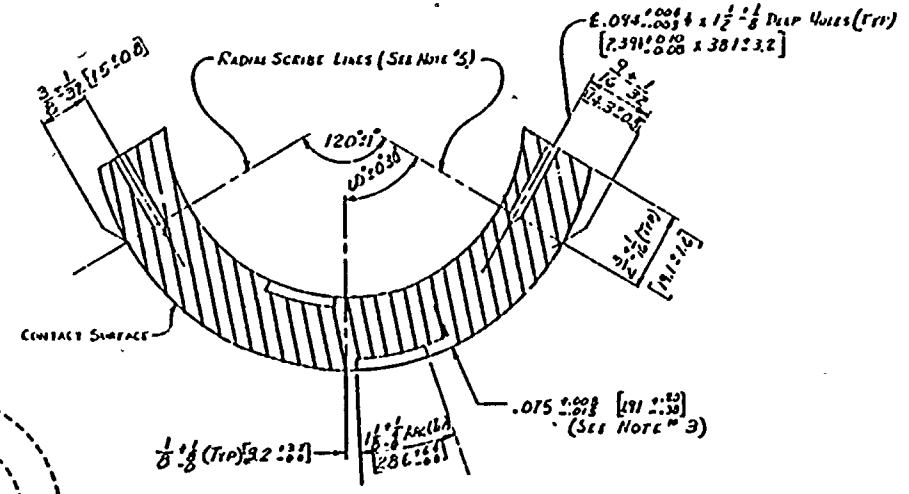
GENERAL ELECTRIC COMPANY

DRAWN	CHECKED	APPROVED	

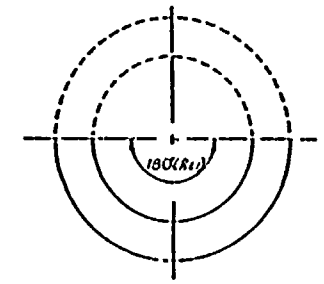
STD-38-0

UTCB-201-3

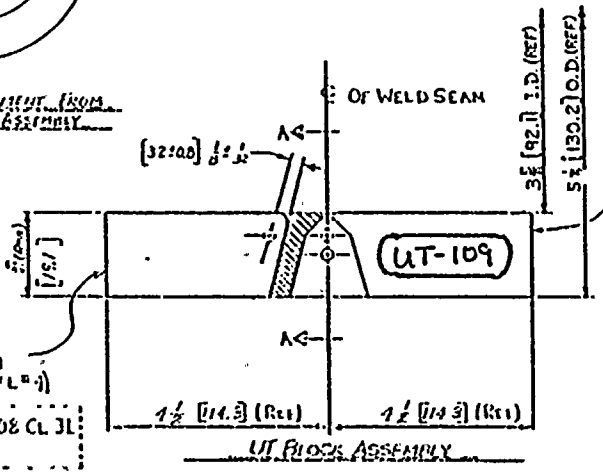
REV. 0



Section A-A



Cutting Arrangement from UT Block Fuel Assembly



UT Block Assembly

1	SID400		UT BLOCK SA		

NOTES:

1. Material Shall Be Free Of Laminar Indications That Will Affect Angle Beam Calibration.
2. Contact Surface To Be Free Of Rust And Any Roughness That Will Interfere With UT Search Unit Movement. Sand Blast Finish Acceptable. (Grit Blast Prohibited)
3. Notches To Be Machined With ¼ [32] Non-Flat End Mill.
4. Metal Stamp Identification Here 1/2 [30] Inch Min. High Characters.
5. Scribe .010±.005 [0.25±0.13] Deep Lines Radially On Both Ends Of Block And Then Across Contact Surface.
6. All Dimensions In Brackets [ ] Are Millimeters.
7. Inch Dimensions To Have Precedence Over Metric Dimensions.

UT Application: N9 Nozzle
Contract No: [ ] (See Bills)
Material Spec: SA 336 Cl F8
Heat No:
Vessel Name: [ ] (See Bills)
CBIN Pc. Mk. STD-40-0

Material Spec: SA508 Cl 3L
Heat No:

General Electric
Nuclear Energy Division

- ☐ Disapproved for comments. Revise and resubmit for approval
- ☐ Approved with Comments. Revise and resubmit MATERIAL FORM
- ☐ Refer to EDS No. ____
- ☒ Approved. No further action required.
- ☐ Approved. Submit certified copy.
- ☐ Certified by Seller and Approved by Buyer.

Reviewed By: A. Rao
Date: 9/17/85
GE No.: 186G8562

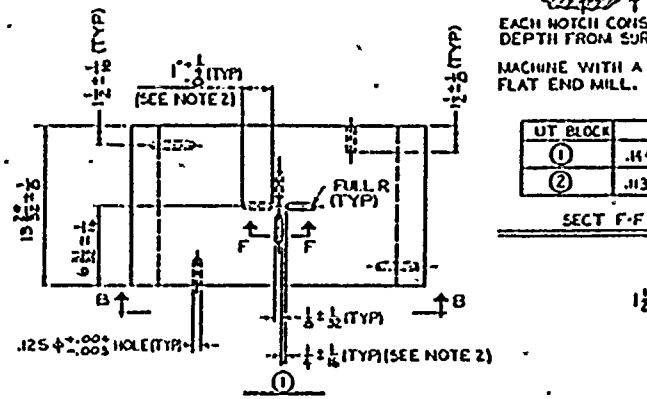
WPPSS

NOZZLE UT BLOCK
(N9 NOZZLE TO SAFE END)

STD-40-0

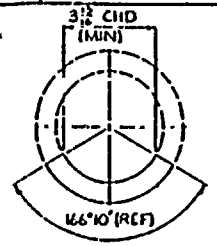
UTCB-201-4

REV 0

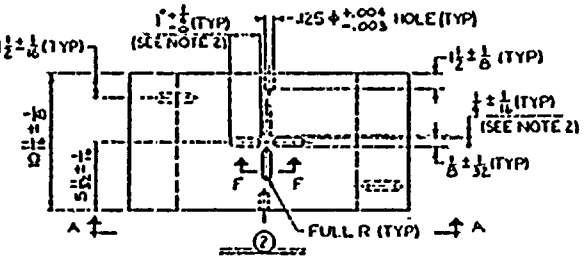


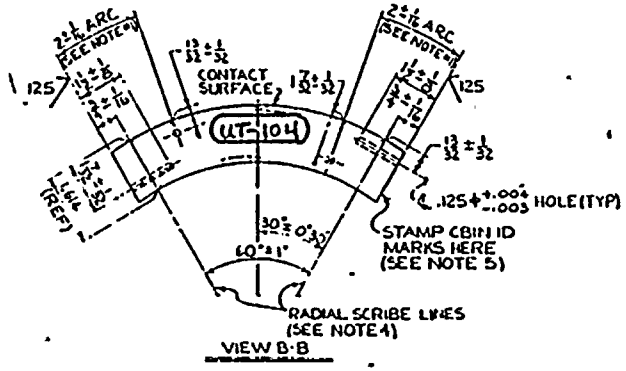
UT BLOCK	G (TYP)
①	.111 +.014 -.019
②	.113 +.014 -.022

SECT F-F

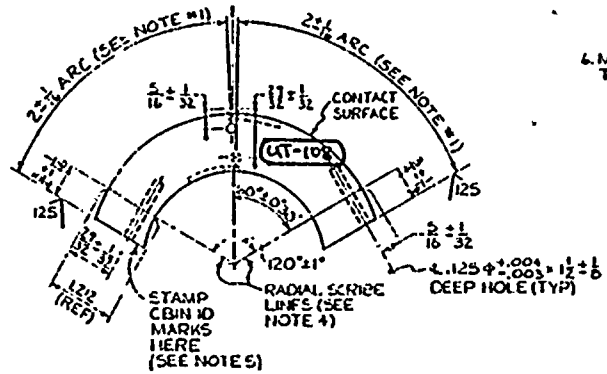


CUTTING ARRANGEMENT FOR UT BLOCK ②

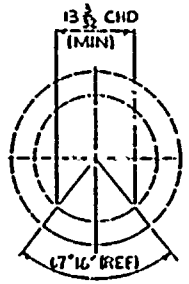




VIEW B-B



VIEW A-A



CUTTING ARRANGEMENT FOR UT BLOCK ①

ITEM	QUAN	MARK	DESCRIPTION	WEIGHT EACH	WEIGHT TOTAL	MATERIAL
1		3:1	UT BLOCK X SK (FOR N3 NOZZ TO SAFE END) (M/F FORGED TUBE: 26.80 OD ± .9% X 22.65 ID ± .03 X 13.93 ± .12 LONG)			SA 508 CL II
1		3:2	UT BLOCK X SK (FOR N8 NOZZ TO SAFE END) (M/F FORGED TUBE: 6.25.90 ± .88 X 3.83 ID ± .03 X 10.68 ± .12 LONG)			SA 508 CL II

NOTES:

1. MEASURE ALONG INSIDE TUBE SURFACE.
2. MEASURE ALONG SURFACE INTERSECTING APPLICABLE NOTCH OR NOTCHES.
3. CONTACT SURFACE TO BE FREE OF RUST AND ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
4. SCRIBE A .010 ± .005 DEEP LINE RADIALLY ON BOTH ENDS OF BLOCK AND THEN ACROSS CONTACT SURFACE AT EACH END.
5. METAL STAMP CBIN IDENTIFICATION MARKS WITH .12 MIN HIGH CHARACTERS AS SHOWN:

UT APPLICATION: N3 NOZZ TO SAFE END -OR- N8 NOZZ TO SAFE END
CONTRACT NO.: 5-CN601
MATERIAL SPEC.: SA 508 CL I -OR- SA 508 CL II
HEAT NO.: AS REQUIRED
VESSEL NAME: HANFORD II
CBIN PC. MK.: 3-1 -OR- 3-2

6. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.

GENERAL ELECTRIC
NUCLEAR ENERGY DIVISION
☐ Disapproved per comments. Revise and resubmit for approval.
☐ Approved with Comments. Revise and resubmit IN FINAL FORM.
☐ Refer to EDS No. ____
☒ Approved. No further action req'd.
☐ Approved. Submit certified copy.
☐ Certified by Seller and Approved by Buyer.
Reviewed by: [signature]
Date: 6/13/77
VPF No. 3133-522-2

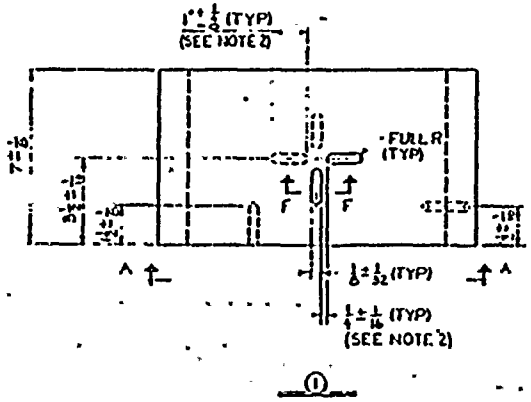
RELEASED FOR CONSTRUCTION
UPDATED BY ____ DEV ____ DATE ____
CHICAGO BRIDGE & IRON CO.

WPPSS

N3 & N8 NOZZ UT BLOCKS

205GA106 | VPF # 2133-520
SCALE: 1:1 | 5-CN601
DRAWN: 23 6/77 | SIZE: D | SHEET: 3 | REV: 0

UTCB-202-1



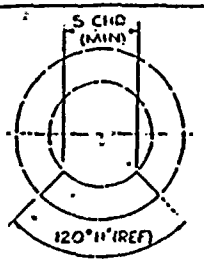
①

EACH NOTCH CONSTANT DEPTH FROM SURFACE.

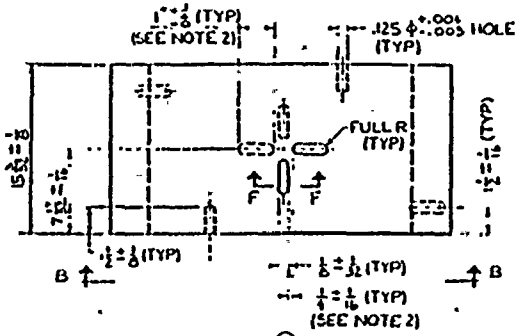
MACHINE WITH A ⅛ Ø HSM FLAT END MILL.

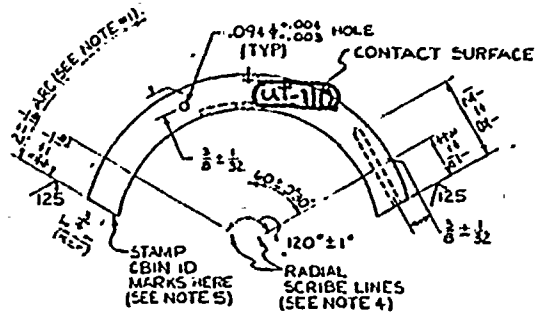
UT BLOCK	G (TYP)
①	.073 +.031 −.012
②	.155 +.031 −.014

SECTION F-F

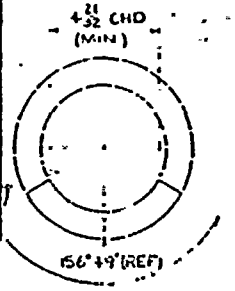


CUTTING ARRANGEMENT FOR UT BLOCK ②

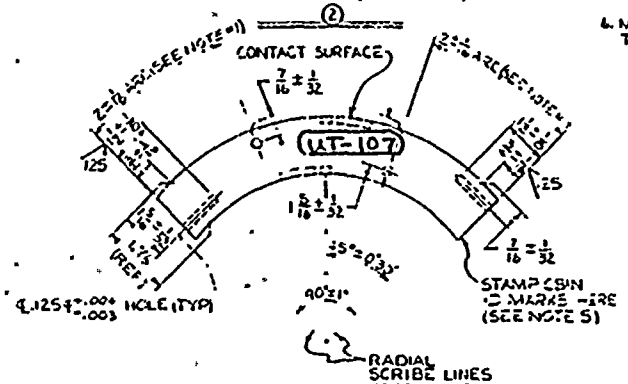




VIEW A-A



CUTTING ARRANGEMENT FOR UT BLOCK ①



VIEW B-B

1	4-1		UT BLOCK # 5K FOR N10 NOZZ TO SAFE END) M/F FORGED TUBE: 6.250 OD ±.05 x 4.75 ID ±.32 x 7.00 ±.12 LONG)		SA508 CL II	0
1	4-2		UT BLOCK # 5V FOR N7 NOZZ TO SAFE END) M/F FORGED TUBE: 9.28 OD ±.08 x 5.76 ID ±.38 x 15.00 ±.12 LONG)		SA508 CL II	0

NOTES:

1. MEASURE ALONG INSIDE T-BE SURFACE.
2. MEASURE ALONG SURFACE INTERSECTING APPLICABLE NOTCH(ES).
3. CONTACT SURFACE TO BE FREE OF RUST & ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
4. SCRIBE A .010 ± .005 DEEP LINE RADIALLY ON BOTH ENDS OF BLOCK AND THEN ACROSS CONTACT SURFACE AT EACH END.
5. METAL STAMP CBIN ID MARKS WITH .12 MIN HIGH CHARACTERS INCLUDING:

UT APPLICATION:	N10 NOZZ TO SAFE END -OR- N7 NOZZ TO SAFE END
CONTRACT NO.: 5-CN601	
MATERIAL SPEC.:	SA508 CL I -OR- SA508 CL II
HEAT NO.:	AS REQUIRED
VESSEL NAME: HANFORD II	
CBIN PC. MK.:	4-1 -OR- 4-2

6. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.

GENERAL ELECTRIC
NUCLEAR ENERGY DIVISION

- ☐ Disapproved per comments. Revise and resubmit for approval.
- ☐ Approved with Comments. Revise and resubmit IN FINAL FORM
- ☐ Refer to EDS No. ____
- ☒ Approved. No further action req'd
- ☐ Approved. Submit certified copy.
- ☐ Certified by Seller and Approved by Buyer.

Reviewed by: A. L. [illegible]
Date: 6/13/77
VPF No. 3133-5.21-2

RELEASED FOR USE
UPDATED BY ____ REV ____ DATE ____
CHICAGO BRIDGE & IRON CO

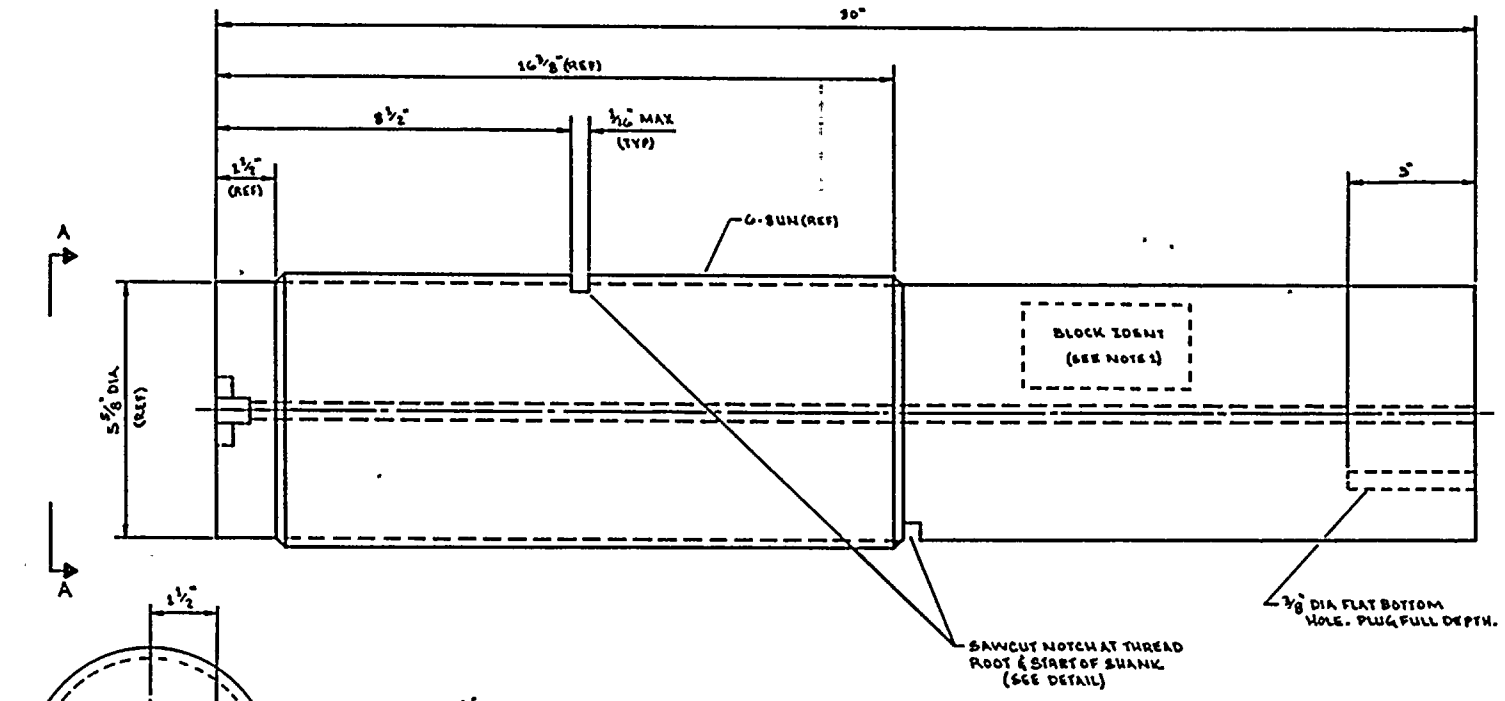
WPPSS

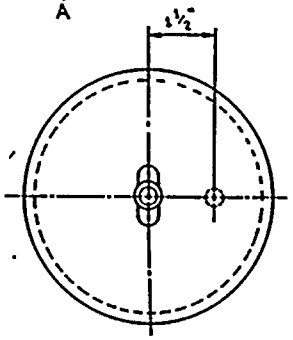
N7 & N10 NOZZ UT BLOCKS

NPF # 2/33-521
SCALE 1:1 5-CN601
DRAWN ____ DATE 6-13-77 SHEET 1 REV 0

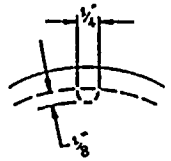
UTCB-202-2

REV O





SECTION A-A



DETAIL

REACTOR VESSEL STUD
UT CALIBRATION BLOCK
UT-130

(MAKE FROM SPARE STUD)

NOTES:

1. STAMP ON STUD SHANK WITH 1/4" HIGH STEEL STAMP WITH CAL BLOCK NO "UT-130".
2. STANDARD MACHINING TOLERANCES ARE APPLICABLE UNLESS OTHERWISE NOTED.

DANIEL W. PORTER
STATE OF WASHINGTON
PROFESSIONAL ENGINEER

Daniel W. Porter

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP- 2

UT CALIBRATION BLOCK

ENGINEER N.C. HALLAS

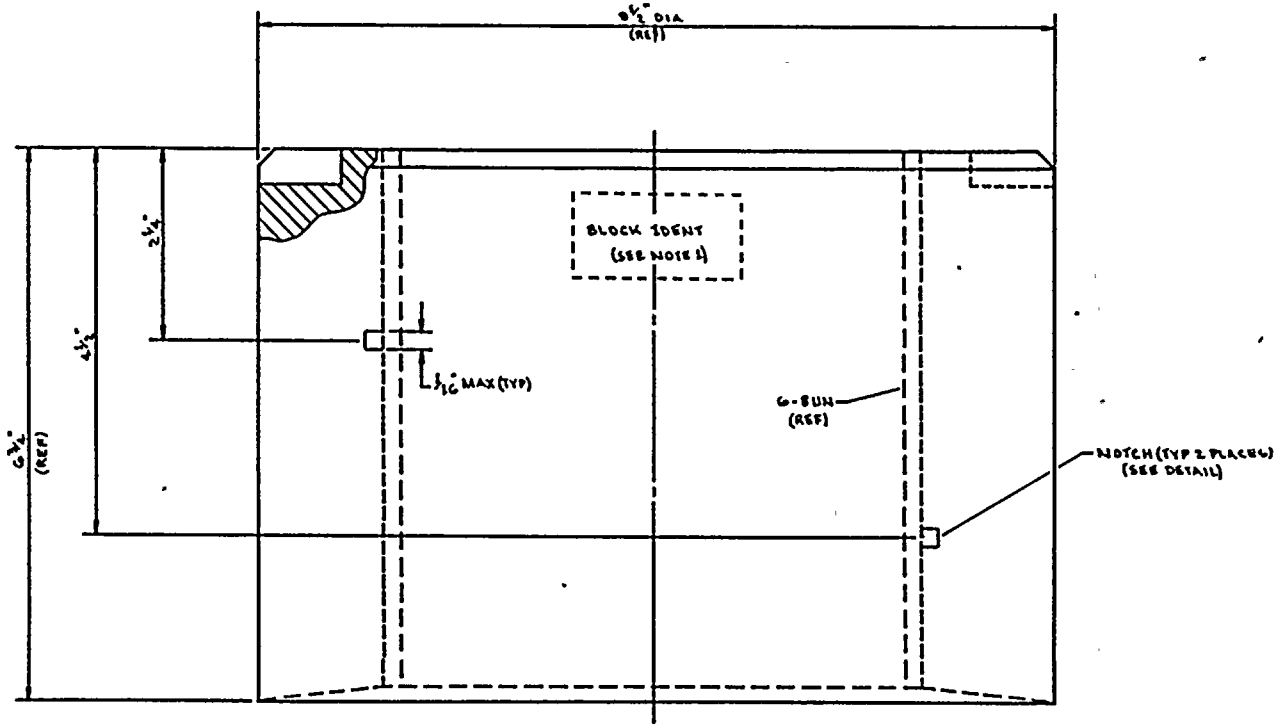
DRAWN K. McANDREW

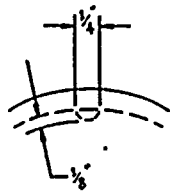
DATE 7-12-78

DWG NO UTCB-210

REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	7-11-78	ISSUED FOR CONSTRUCTION	K.McA	[illegible]	[illegible]





DETAIL

REACTOR VESSEL NUT
UT CALIBRATION BLOCK
UT-132

(MAKE FROM SPARE NUT)

NOTES:

1. STAMP BLOCK WITH ½" HIGH STEEL STAMP WITH CAL BLOCK NO "UT-132.
2. STANDARD MACHINING TOLERANCES ARE APPLICABLE UNLESS OTHERWISE NOTED.

DANIEL W. PORTER
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

Daniel W. Porter

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2

UT CALIBRATION BLOCK

NO	DATE	REVISION	BY	CHKD	APPVD
0	2-19-75	ISSUED FOR CONSTRUCTION	W. Reed	[illegible]	[illegible]

ENGINEER NC HALLAS
DRAWN K. McANDREW
DATE 7-22-78

DWG NO UTCB-211 REV 0

TABLE 11-2

PIPING SYSTEM ULTRASONIC CALIBRATION BLOCKS

See Section 11.2 for Notes

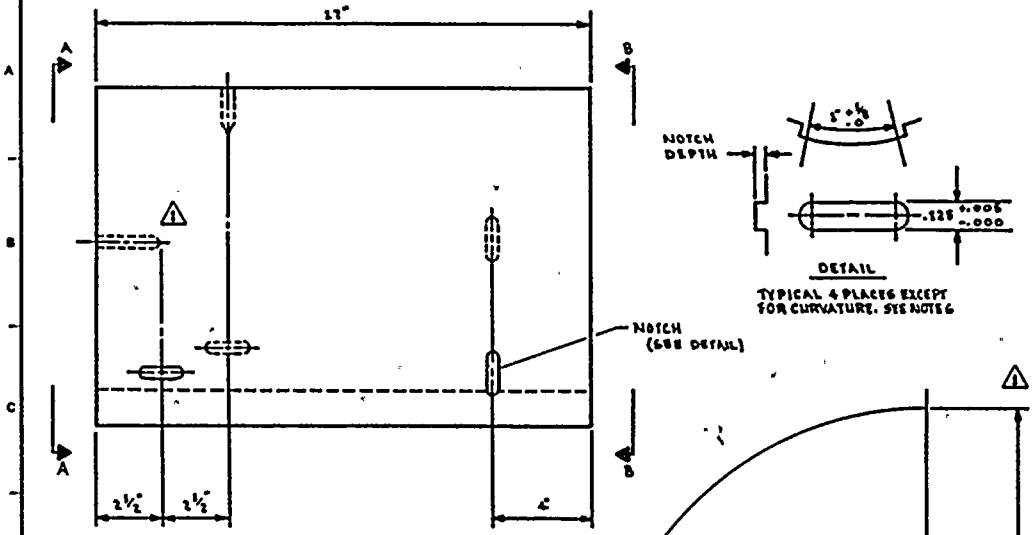
BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-14	UTCB-221	14" RHR(1)-4	CS	14"	0.750"	SA-106 Gr. B
UT-15	UTCB-221	12" RFW(1)-4	CS	12"	0.844"	SA-106 Gr. B
UT-16	UTCB-221	12" RHR(1)-4	CS	12"	0.844"	SA-106 Gr. B
		12" HPCS(1)-4				(NOTE 2)
		12" LPCS(1)-4				(NOTE 2)
UT-17	UTCB-221	12" HPCS(1)-4	CS	12"	0.688"	SA-106 Gr. B
		12" LPCS(1)-4				
UT-18	NOT USED					
UT-19	UTCB-221	12" RRC(7)-4S	SS	12"	0.688"	SA-358 Gr. 304 (NOTE 3)
		12" RHR(1)-4S				
		12" RRC(1)-4S				
UT-20	NOT USED					
UT-21	UTCB-221	10" RCIC(12)-4	CS	10"	0.719"	SA-106 Gr. B
UT-22	UTCB-221	10" HPCS(1)-4	CS	10"	0.594"	SA-106 Gr. B
		10" RCIC(12)-4				
		10" LPCS(1)-4				
UT-23	UTCB-221	10" RCIC(12)-4	CS	10"	0.844"	SA-106 Gr. B

TABLE 11-2

PIPING SYSTEM ULTRASONIC CALIBRATION BLOCKS

See Section 11.2 for Notes

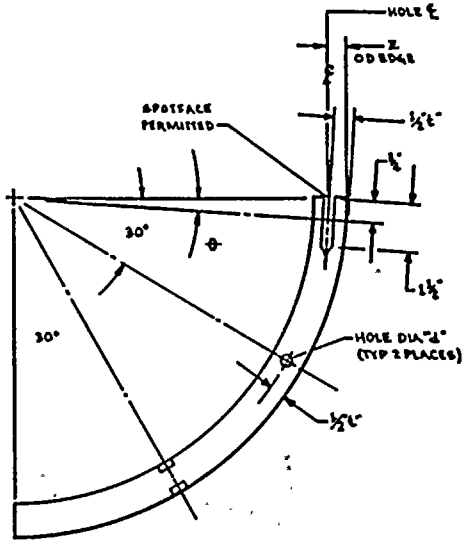
BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-24	UTCB-221	8" MS(1)-4	CS	8"	0.906"	SA-106 Br. B
UT-25	UTCB-221	8" RCIC(12)-4	CS	8"	0.594"	SA-106 Gr. B
		8" RHR(20)-4				
UT-26	UTCB-221	8" RRC(1)-4S	SS	8"	0.500"	SA-376 Tp. 304
UT-27	UTCB-221	6" RCIC(1)-4	CS	6"	0.562"	SA-106 Gr. B
		6" RCIC(6)-4				
UT-28	UTCB-221	6" RCIC(1)-4	CS	6"	0.432"	SA-106 Gr. B
		6" RHR(10)-4				
		6" RWCU(3)-4				
		6" RWCU(4)-4				
		6" RFW(11)-4				
UT-29	UTCB-221	4" RRC(4)-4S	SS	4"	0.337"	SA 312 Tp. 304
UT-30	UTCB-221	4" RCIC(10)-4	CS	4"	0.337"	SA-106 Gr. B
		4" RCIC(13)-4				
		4" RWCU(3)-4				
		4" RWCU(4)				
		4" RRC(51)-4				
		4" HPCS(1)-4				
		4" LPCS(1)-4				



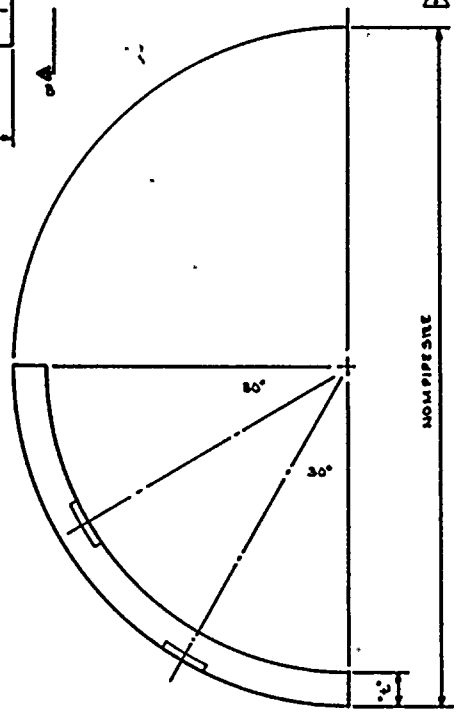
DETAIL

TYPICAL 4 PLACES EXCEPT FOR CURVATURE. SEE NOTE 6

CAL BLOCK Nº	NOM PIPE SIZE	NOM WALL THK "t"	MATERIAL SPECIFICATION	NOTCH DEPTH	HOLE DIA "d"	Θ	Z
UT-1	30	1.260	SA 155 KCF-70	.116 +.012 -.023	1/8"	3°	.605
UT-2	28	1.420	SA 155 KCF-70	.129 +.018 -.026	1/8"	3½°	.699
UT-3	26	1.325	SA 155 KCF-70	.106 +.011 -.021	1/8"	3½°	.539
UT-4	SEE UTCB-224						
UT-5	24	1.812	SA 106 GRB	.169 +.016 -.032	1/8"	3¾°	.882
UT-6	24	1.218	SA 106 GRB	.113 +.011 -.023	1/8"	3¾°	.584
UT-7	24	1.140	SA 358 GR 304	.114 +.011 -.022	1/8"	3¾°	.545
UT-8	NOT USED						
UT-9	20	1.031	SA 358 GR 304	.103 +.010 -.020	1/8"	4½°	.486
UT-10	20	1.031	SA 106 GRB	.098 +.010 -.020	1/8"	4½°	.486
UT-11	18	1.375	SA 106 GRB	.126 +.015 -.025	1/8"	5¼°	.654
UT-12	18	0.938	SA 106 GRB	.090 +.009 -.018	3/32"	5°	.436
UT-13	16	0.758	SA 358 GR 304	.076 +.008 -.015	3/32"	5½°	.344
UT-33	24	2.343	SA 106 GRB	.194 +.019 -.039	3/16"	4°	1.115



SECTION A-A



SECTION B-B

NOTES:

1. STAMP BLOCKS WITH 1/8" HIGH STEEL STAMP ON ENDS WITH NOM PIPE SIZE, SCH OR WALL THK, MATL SPEC, HEAT Nº & CAL BLOCK Nº.
2. TOLERANCE FOR Θ IS ± ¼°.
3. TOLERANCE FOR Z IS ± .005.
4. STANDARD MACHINING TOLERANCES ARE APPLICABLE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE IN INCHES.
6. NOTCH BOTTOM CURVATURE SHOULD CONFORM TO PIPE WALL CURVATURE.

DANIEL W. PORTER — REGISTERED PROFESSIONAL ENGINEER

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2

ENGINEER NC HALLAS

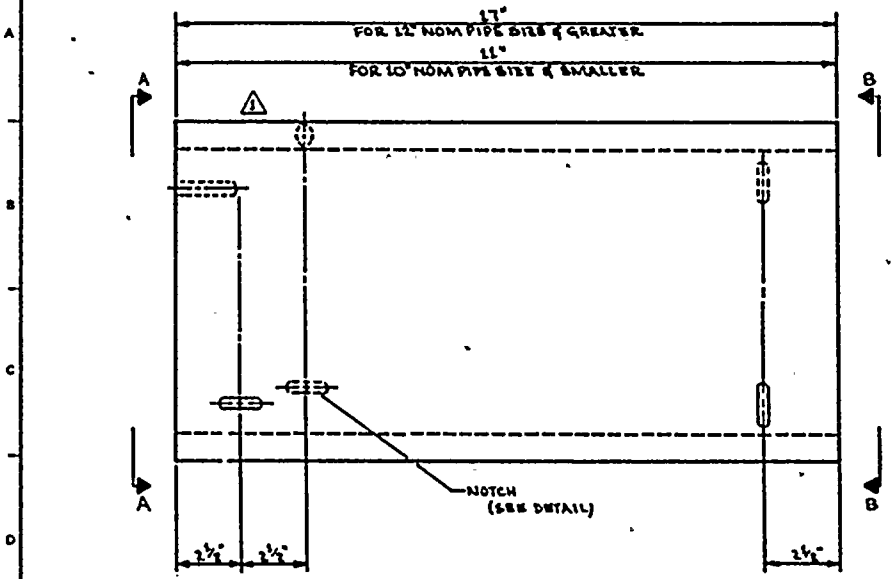
DRAWN K. McANDREWS

UT CALIBRATION BLOCKS

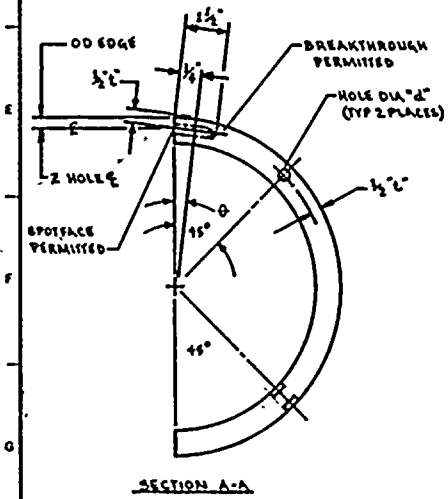
DWG NO UTCB-220 REV 2

DATE 7-10-78

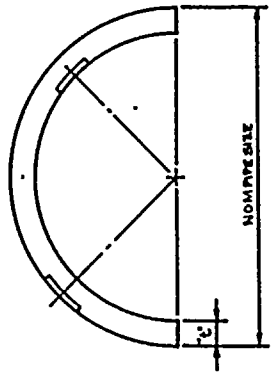
NO	DATE	REVISION	BY	CHKD	APPVD
2	2-2-79	CORRECTED Z DIMENSIONS, DELETED UT-4	K.J.A.	D.W.P.	
1	6-2-78	TABLE REVISED, HOLE DEPTH CHANGED	K.M.A.		
0	7-10-78	ISSUED FOR CONSTRUCTION	K.M.A.		



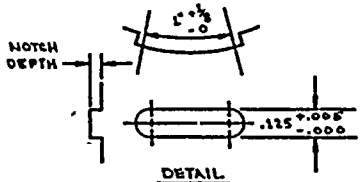
CAL BLOCK NO	NOM PIPE SIZE	NOM WALL THK "t"	MATERIAL SPECIFICATION	NOTCH DEPTH	HOLE DIA "d"	Φ	Z
UT-14	14	.750	SA 106 GR B	.078 +.007 -.015	3/32"	6½°	.333
UT-15	12	1.000	SA 106 GR B	.095 +.009 -.019	3/32"	7½°	.432
UT-16	12	.844	SA 106 GR B	.081 +.008 -.016	3/32"	7½°	.375
UT-17	12	.688	SA 106 GR B	.067 +.007 -.013	3/32"	7°	.298
⚠1 UT-18	NOT USED						
UT-19	12	.688	SA 358 GR 304	.069 +.007 -.014	3/32"	7°	.298
⚠1 UT-20	NOT USED						
UT-21	10	.719	SA 106 GR B	.070 +.007 -.014	3/32"	8½°	.304
UT-22	10	.594	SA 106 GR B	.059 +.006 -.012	3/32"	8½°	.242
UT-23	10	.844	SA 106 GR B	.081 +.008 -.016	3/32"	8½°	.366
UT-24	8	.906	SA 106 GR B	.087 +.009 -.017	3/32"	11°	.381
UT-25	8	.594	SA 106 GR B	.059 +.006 -.012	3/32"	10½°	.228
UT-26	8	.500	SA 376 TP 304	.050 +.005 -.010	3/32"	10½°	.181
UT-27	6	.562	SA 106 GR B	.056 +.006 -.011	3/32"	14°	.190
UT-28	6	.432	SA 106 GR B	.043 +.004 -.009	3/32"	13½°	.126
UT-29	4	.337	SA 312 TP 304	.034 +.003 -.007	3/32"	19¾°	.038
UT-30	4	.337	SA 106 GR B	.034 +.003 -.007	3/32"	19¾°	.038
UT-31	4	.237	SA 376 TP 304	.024 +.005 -.010	3/32"	19½°	-.011
UT-32	5	.500	SA 106 GR B	.050 +.005 -.010	3/32"	16½°	.141



SECTION A-A



SECTION B-B



DETAIL

TYPICAL 4 PLACES EXCEPT FOR CURVATURE. SEE NOTE 6

NOTES:

1. STAMP BLOCKS WITH ⅛" HIGH STEEL STAMP ON ENDS WITH NOM PIPE SIZE, SCH OR WALL THK, MATL SPEC, HEAT NO & CAL BLOCK NO.
2. TOLERENCE FOR Φ IS ± ½°.
3. TOLERENCE FOR Z IS ± .005.
4. STANDARD MACHINING TOLERANCES ARE APPLICABLE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE IN INCHES.
6. NOTCH BOTTOM CURVATURE SHOULD CONFORM TO PIPE WALL CURVATURE.

DANIEL W. PORTER STATE OF WASHINGTON PROFESSIONAL ENGINEER

Daniel W. Porter

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2

UT CALIBRATION BLOCKS

ENGINEER N.C. HALLAS

DRAWN K.M. ANDREW

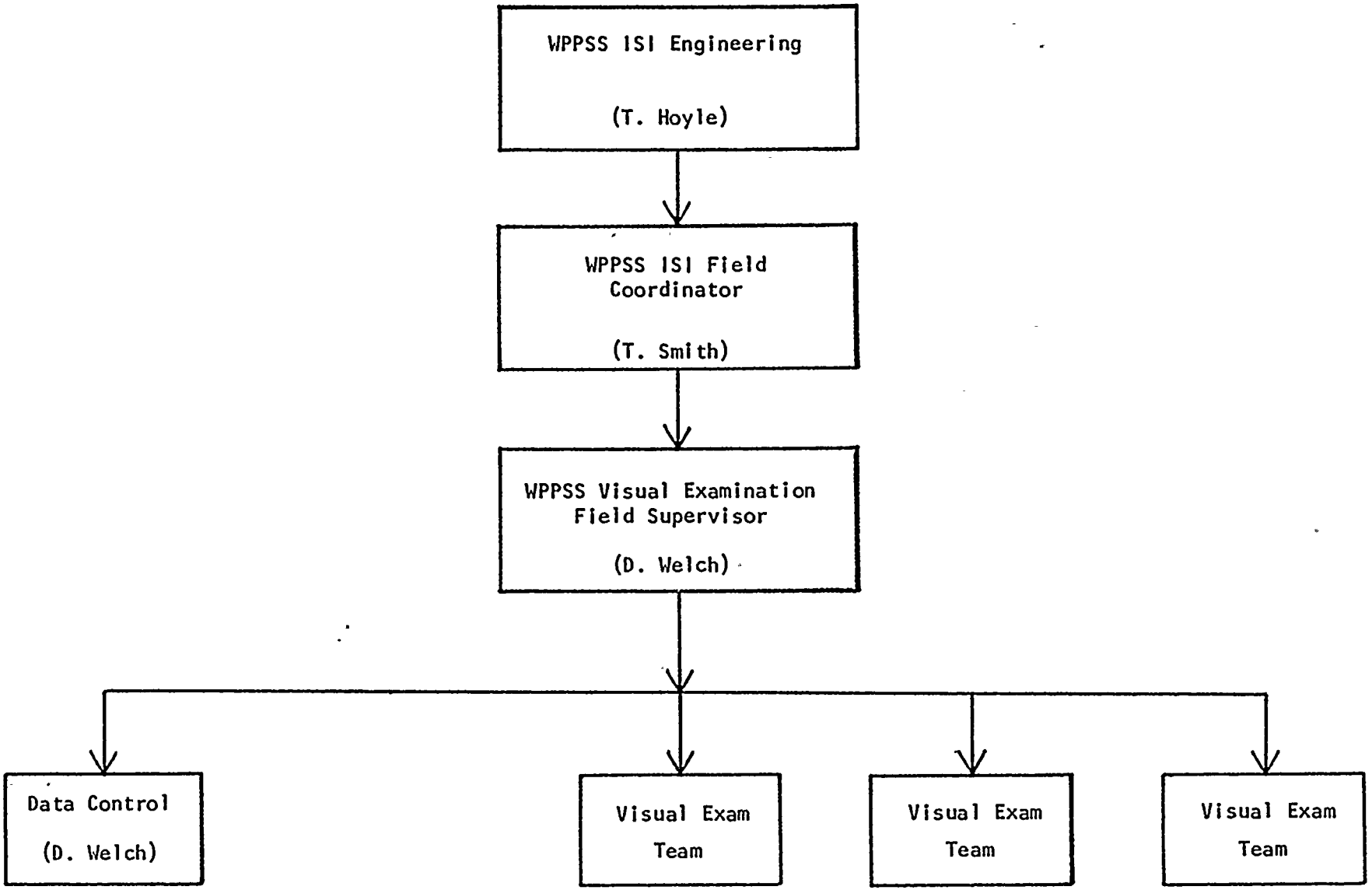
DATE 7-11-78

DWG NO UTCB-222 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
2	2-2-79	CORRECTED E DIMENSION FOR UT-31.	K.M.A.	D.W.P.	N.C.H.
1	1-2-79	TABLE REVISED, HOLE DEPTH CHANGED	K.M.A.	D.W.P.	N.C.H.
0	7-11-78	ISSUED FOR CONSTRUCTION	K.M.A.	D.W.P.	N.C.H.

Figu ..2-1

VISUAL EXAMINATIONS
WPPSS SITE ORGANIZATION



Date 1/8/79
Revision 0

12.3 Planning and Scheduling

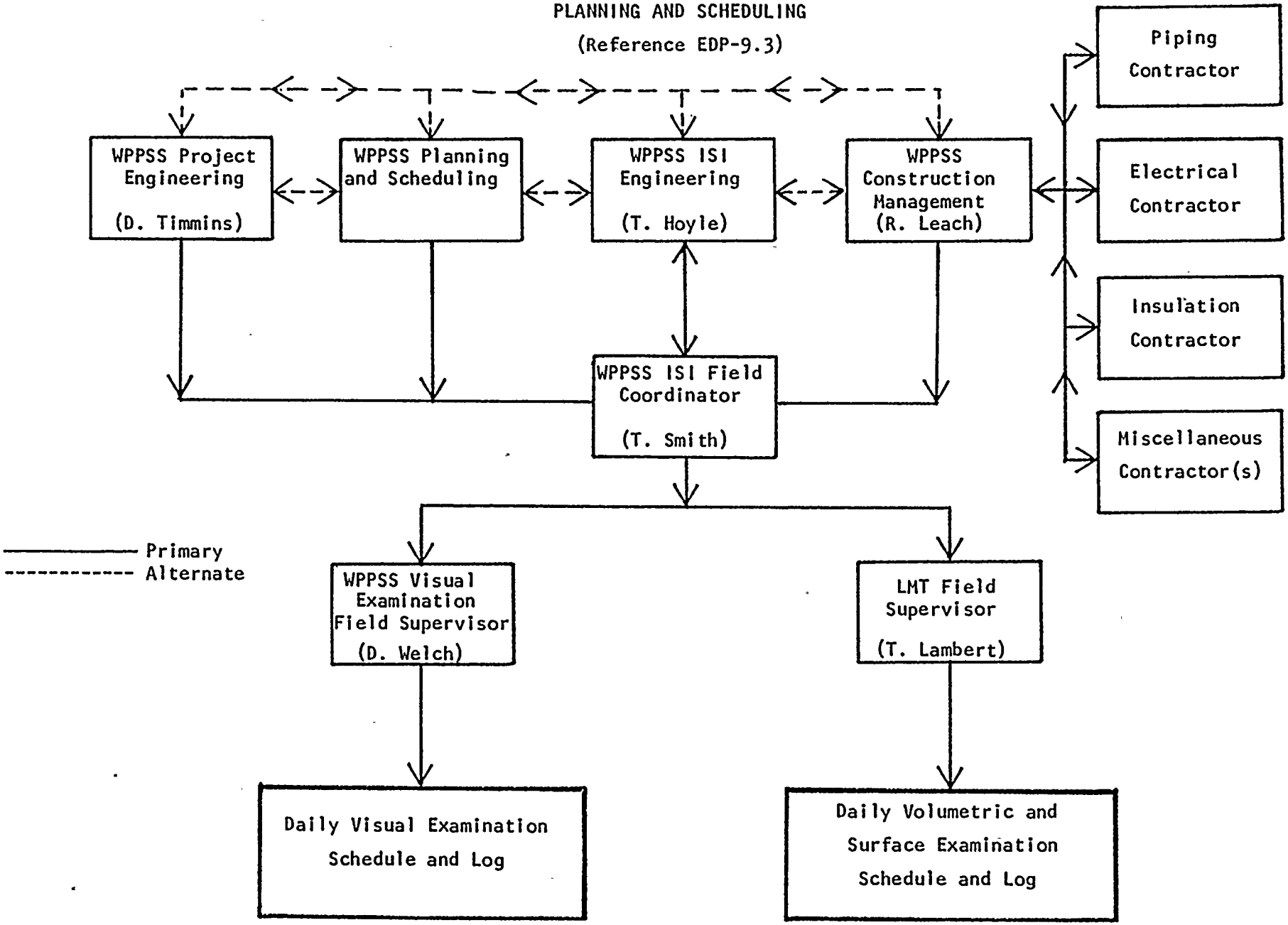
The planning and scheduling of the PSI examinations will be conducted as follows. The organization of personnel involved in planning and scheduling is illustrated on Figure 12.3-1 below. The LMT Field Supervisor and the WPPSS Visual Examination Field Supervisor are directly responsible for developing, maintaining, and administering their respective Examination Schedule and Log. Their primary source of scheduling information is the WPPSS ISI Field Coordinator. The WPPSS ISI Field Coordinator receives input from the WPPSS Project Engineer, WPPSS Planning and Scheduling, the WPPSS ISI Engineering, and WPPSS Construction Management. He works with the respective Field Supervisors to compile this input onto a completed schedule, and continually provides input to allow schedule revisions responsive to project construction schedules and other project input. Weekly scheduling meetings, with greater or lesser frequencies as needed, will be the primary source of input to the ISI Field Coordinator and Field Supervisor.

A secondary or alternative coordination activity is shown between WPPSS ISI Engineering and the Project Engineering, Planning and Scheduling, and Construction Management organizations. This is intended to provide coordination assistance by the ISI Engineer to the ISI Field Coordinator on an as-needed basis.

The ISI Engineer will take corrective action if and when any Project schedule commitments appear to be in jeopardy.

Figu. .3-1

ALL EXAMINATIONS
PLANNING AND SCHEDULING
(Reference EDP-9.3)



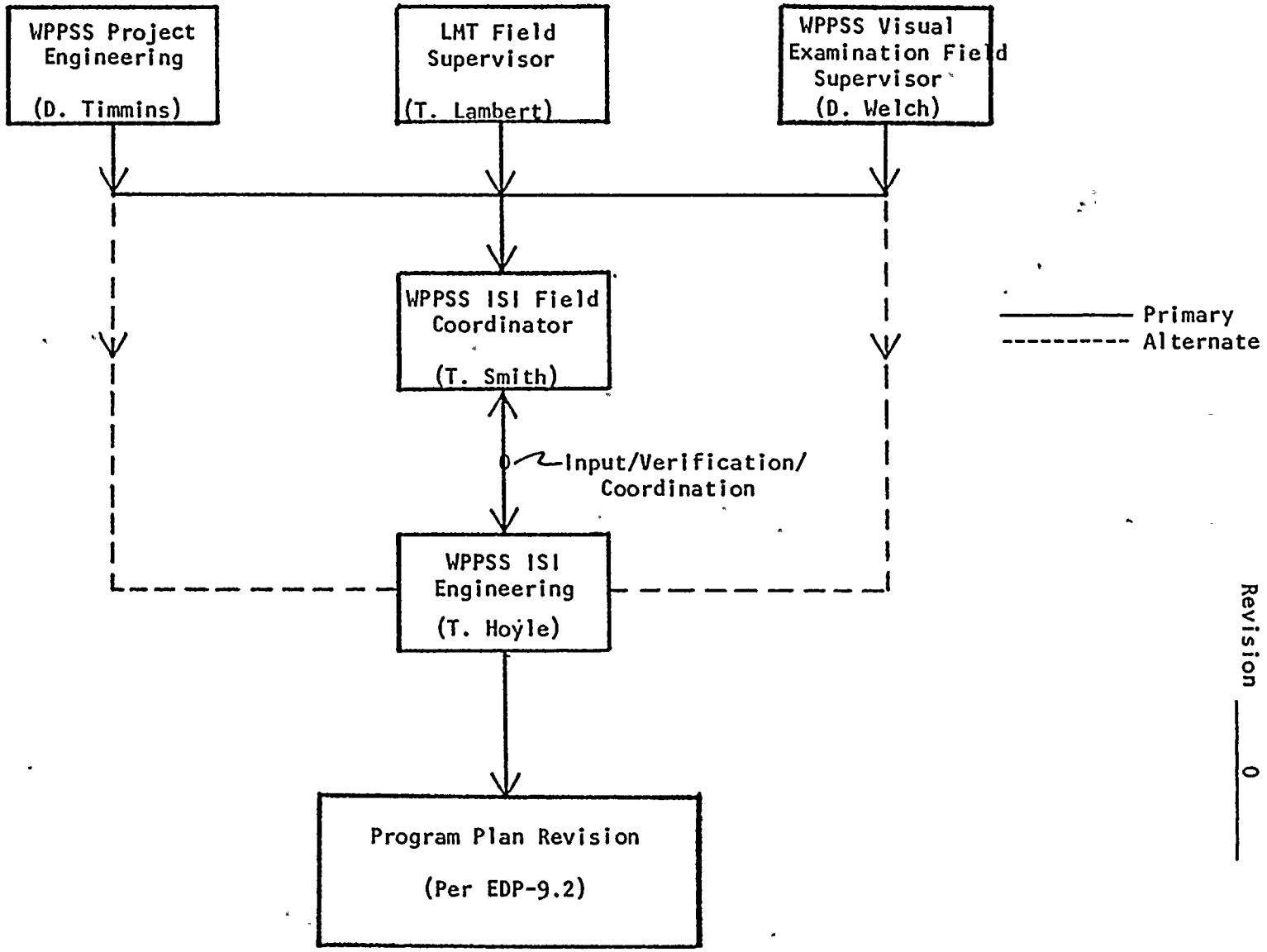
Date 1/8/79
Revision .0

12.4 PSI Program Plan Revisions

WPPSS ISI Engineering is responsible for the maintenance of the PSI Program Plan, and will make changes to the plan as authorized in Engineering Division Procedure EDP-9.2, "Preparation of PSI Plan". The primary source of notification of need for Program Plan revision is the WPPSS ISI Field Coordinator, who in turn receives input from WPPSS Project Engineering, the LMT Field Supervisor, or the WPPSS Visual Examination Field Supervisor. Alternative examination techniques or methods may also be proposed by the ISI Field Coordinator. The responsible ISI Engineer will verify need for any Program Plan change and coordinate the actual change with the ISI Field Coordinator. Any unexaminable areas discovered in the above process will be documented in the PSI Final Report by the ISI Engineer with appropriate justification which will constitute the basis for request for relief from code requirements as required by the NRC. Figure 12.4-1 illustrates the above described interfaces.

Figure 12.4-1

ALL EXAMINATIONS
PSI PROGRAM PLAN REVISIONS



Date 1/8/79
Revision 0

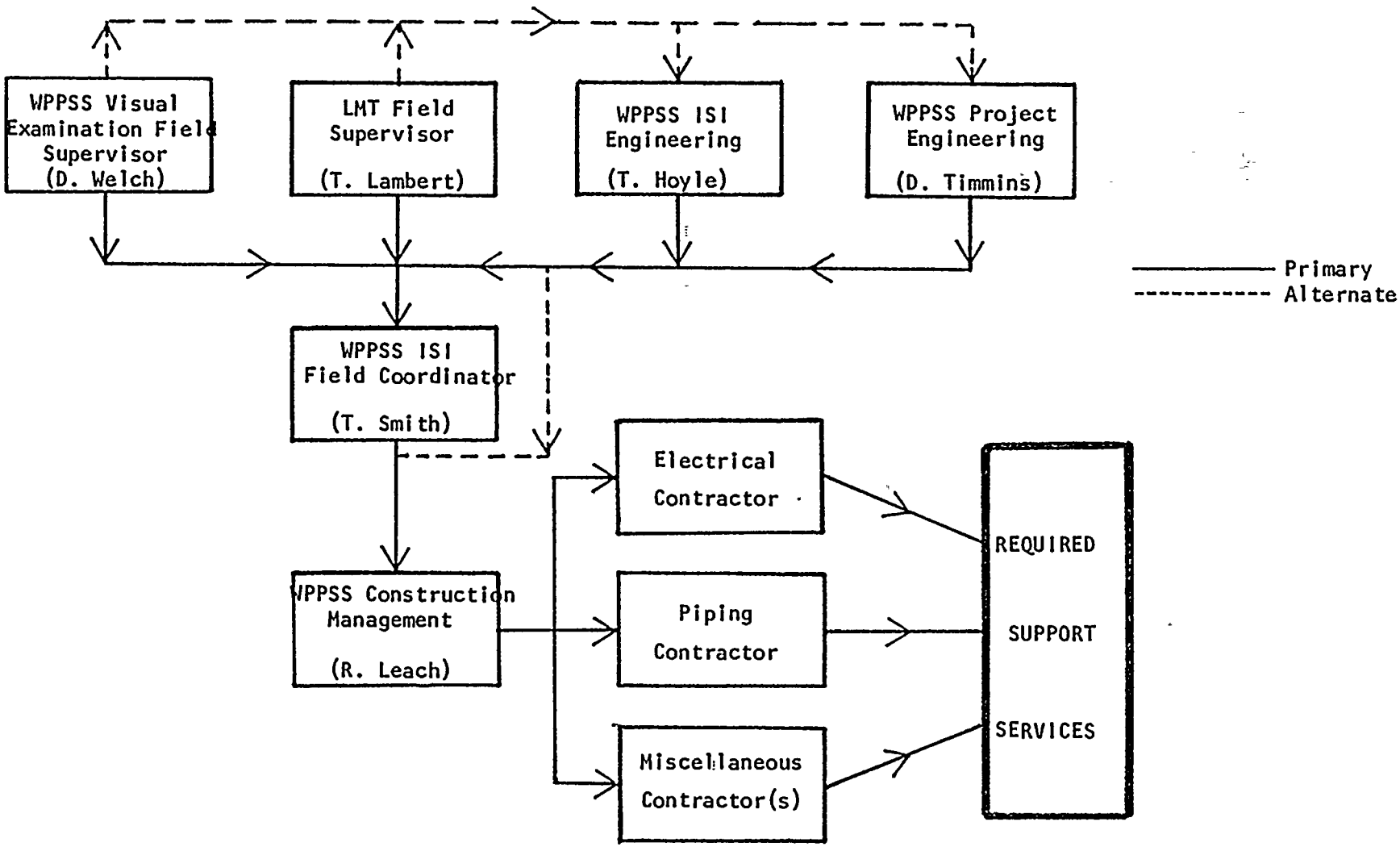
12.5 Field Support Services

The WPPSS Construction Management organization is responsible for arranging field support services through the individual field contractors as shown on Figure 12.5-1. The primary source of requests for support services comes from the WPPSS ISI Field Coordinator, who in turn receives the requests from the WPPSS Visual Examination Field Supervisor and the LMT Field Supervisor. As an alternative, the Field Supervisors may notify the WPPSS ISI Engineer or Project Engineer of their need, and they will in turn notify the Field Coordinator. In the event the Field Coordinator is unavailable, the WPPSS Construction Management may be notified directly, provided the Field Coordinator is notified as soon as possible of the request.

Field support services include such things as scaffolding, electric power hookup, water, compressed air or nitrogen, ladders, support or insulation removal, cosmetic grinding, etc.

Figure 12.5-1

ALL EXAMINATIONS
FIELD SUPPORT SERVICES



Date 1/8/79
Revision 0

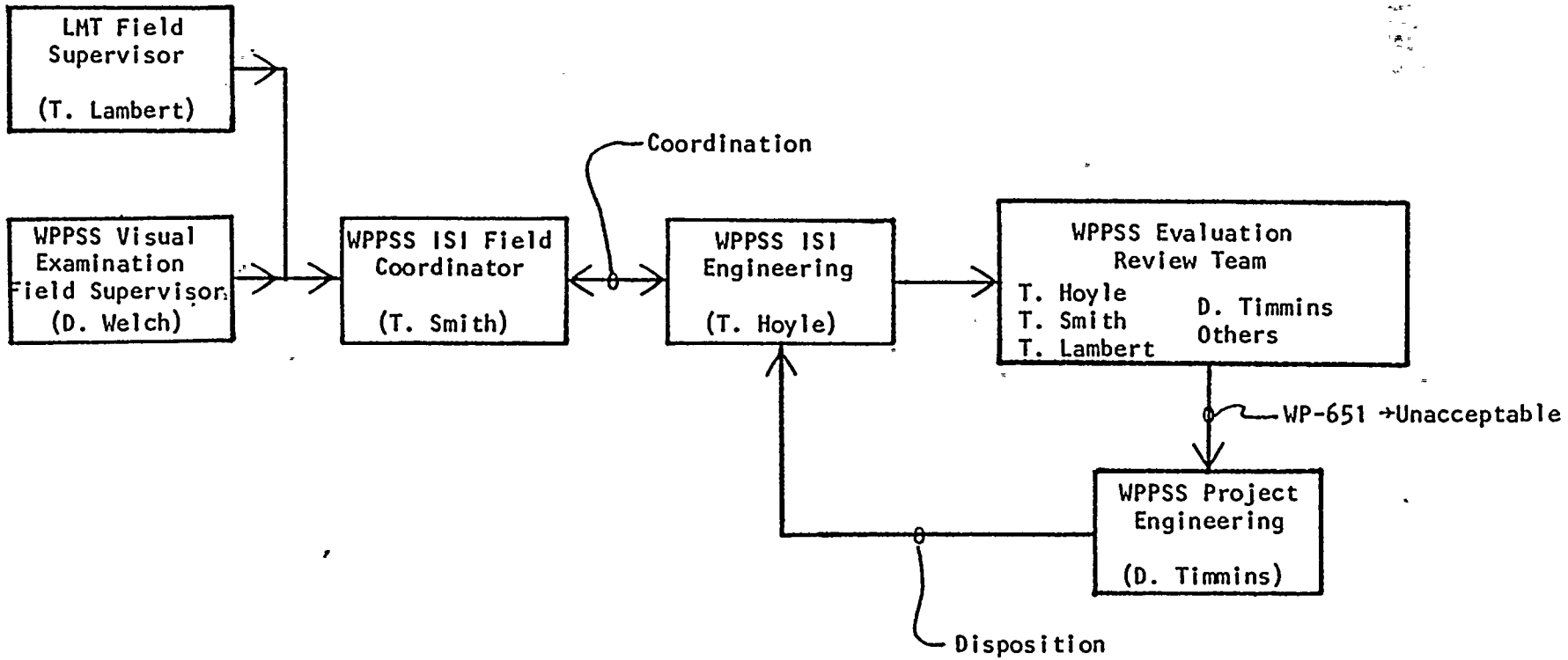
12.6 Reporting and Disposition of Indications

The LMT Field Supervisor and the WPPSS Visual Examination Field Supervisor are responsible for reporting all indications to the WPPSS ISI Field Coordinator in accordance with their respective NDE procedures, and in the case of LMT, their contract with WPPSS. The Field Coordinator will then verify the existence and status (reportable/not reportable) of the indication, and report the indication to the WPPSS ISI Engineer as required. The Field Coordinator will notify ISI Engineering of any significant non-geometric indication such that ISI Engineering will have the opportunity to witness the verification of the existance and status of the indication. The WPPSS ISI Field Coordinator will keep a continuous written inventory of reportable indications, and will forward copies of the inventory sheets to the ISI Engineer on a weekly basis during the conduct of Preservice Inspections.

Any reported indication which cannot be routinely dispositioned by WPPSS ISI Engineering will be presented by the ISI Engineer to the WPPSS Evaluation Review Team for action. Disposition of all indications reported to the Evaluation Review Team will be documented on Evaluation Review Team Reports per EDP-9.3, "Conduct of Preservice Examinations".

Figure 12.6-1

ALL EXAMINATIONS
REPORTING AND DISPOSITION OF INDICATIONS
(Reference EDP-9.3)



Date 1/8/79
Revision 0

12.7 Technical Surveillance

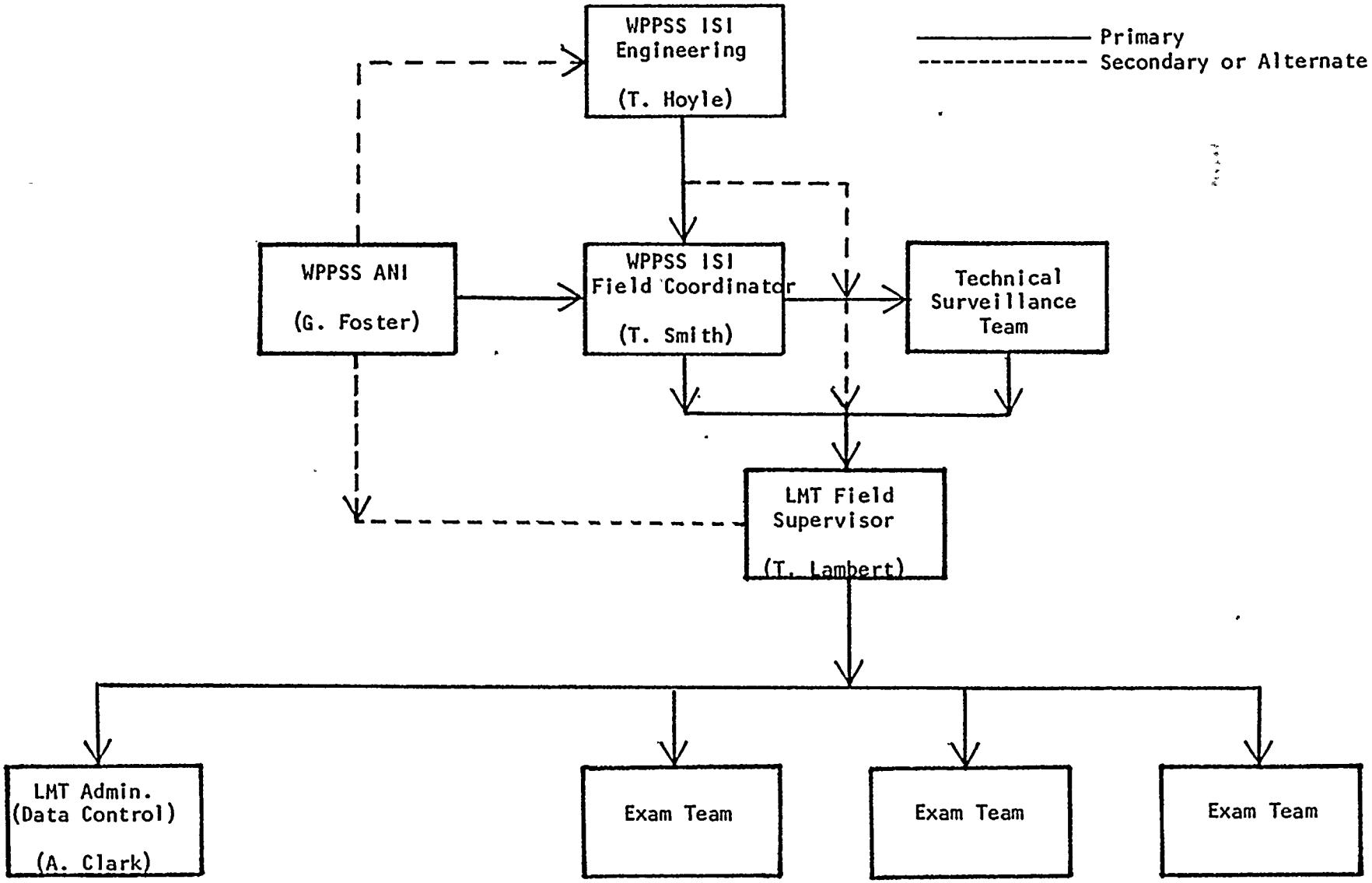
The WPPSS ISI Engineering is responsible for technical surveillance of the overall PSI examination effort to ensure compliance with the requirements of the PSI Program Plan. Technical surveillance of the volumetric and surface NDE activities on a day-to-day basis will be accomplished by the ISI Field Coordinator with the aid of a Technical Surveillance Team as required, depending on the number of examination teams present on-site and other such factors. The Technical Surveillance Team will be under the direction of the Field Coordinator, and may consist of personnel from either the ISI Engineering or Generation Services organizations. Figure 12.7-1 illustrates the above interfaces for volumetric and surface examinations performed by LMT, and Figure 12.7-2 for the visual examinations performed by WPPSS.

The Technical Surveillance Personnel will complete Daily Log Sheets to document their surveillance. Figure 12.7-3 is a typical Daily Log Sheet. The Log Sheets will be returned to the Field Coordinator, who will maintain them in a chronological file on a system basis. The Field Coordinator is responsible for assuring that any follow-up action noted on the log sheets is taken, and will confirm that action by signing and dating the log sheet.

Figures 12.7-1 and 12.7-2 also illustrate the technical surveillance performed by the WPPSS Authorized Nuclear Inspector.

Figure 12.7-1

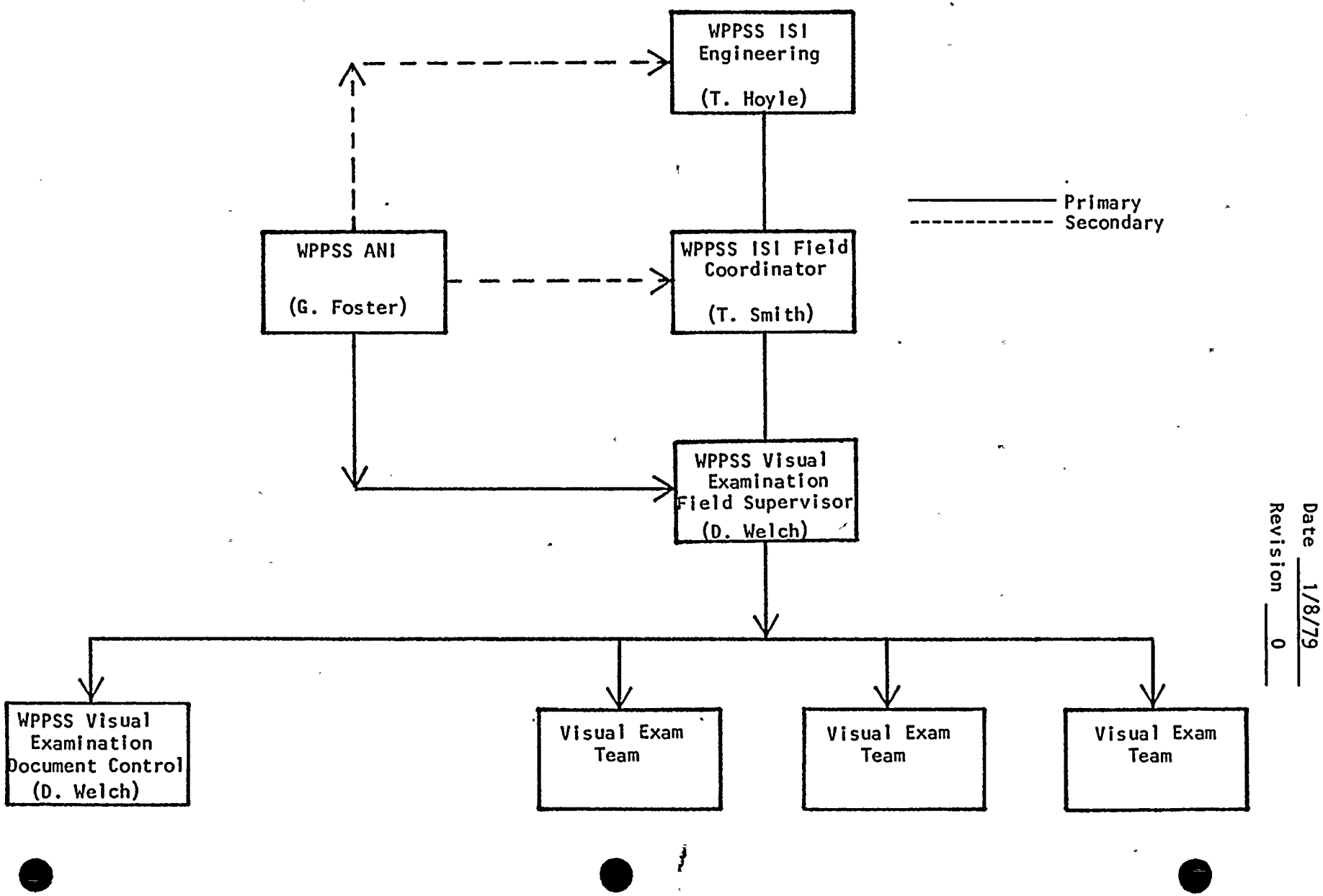
VOLUMETRIC AND SURFACE EXAMINATIONS
TECHNICAL SURVEILLANCE



Date 1/8/79
Revision 0

Figure 12.7-2

VISUAL EXAMINATIONS
TECHNICAL SURVEILLANCE



Date 1/8/79
Revision 0

Date 1/8/79

Revision 0

Figure 12.7-3

Sht_____ Cont on Sht_____

DAILY LOG SHEET

WNP-_____

- Name_____ Initials_____ Date _____

- Surveillance Record

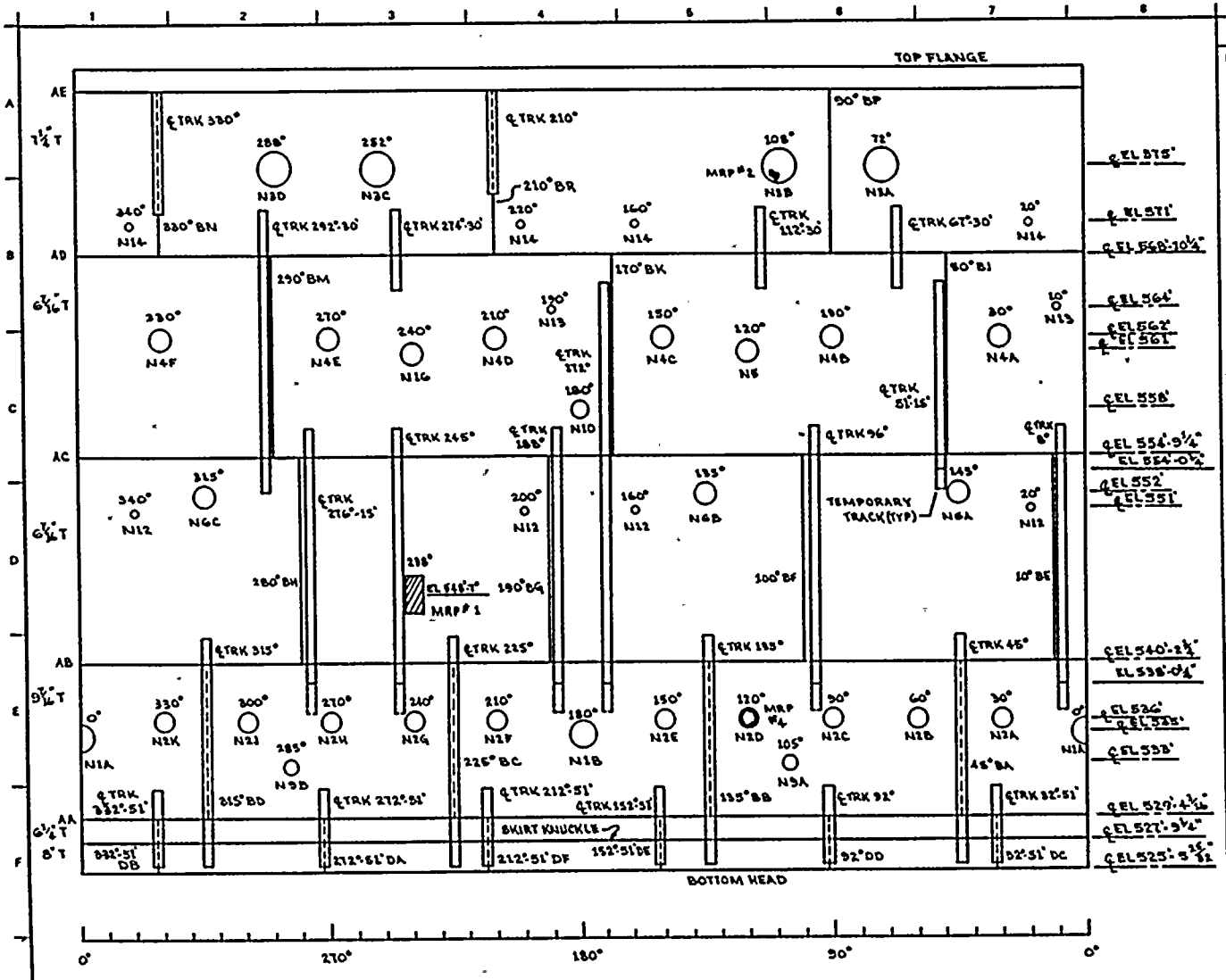
	System/Component	Weld ID Dwg. #	Time		Examiner Name(s)	Equipment/ Cal. Std
			In	Out		
1						
2						
3						
4						
5						

- Notes/Comments/Follow-Up Action:

- WPPSS ISI Field Coordinator _____ Date _____

13.0--QUALITY ASSURANCE

The WNP-2 Preservice Inspection Program activities will be conducted in accordance with the WPPSS Topical Report WPPSS-QA-004, the WPPSS Operational Quality Assurance Program description. The Quality Assurance Program governing the activities of Lambert, MacGill and Thomas, Inc., has been reviewed by WPPSS and found to be in compliance with the WPPSS commitments in the above referenced Topical Report. The specific procedures covering the Preservice Inspection Program activities are listed in Section 10.0, "PROCEDURES". The management plan is located in Section 12.0. The management plan and the procedures have been prepared and/or reviewed and approved by WPPSS and confirmed to be in compliance with the WPPSS commitments in the above reference Topical Report.



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NOTES:

REFERENCES:

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO

0	12-22-78	ISSUED FOR USE	KVA	[illegible]	[illegible]
A	5-17-76	ISSUED FOR INFORMATION ONLY	KVA	RVP	RVP

QUALITY CLASS: 1 | ASME CODE CLASS: N.A.

ENGR: D PORTER | DRAWN: V. M. C. A. | DATE: 2-24-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR PRESSURE VESSEL
POLE TRACK LOCATION

DWG NO: RPV-108 | REV 0

WASHINGTON PUBLIC POWER SUPPLY SYSTEM	NO: INP 3-3
ISI/NDE PROGRAM	REV: Rev. 0
	RESP. ORG: QCS&I
APPROVED: DIV. MGR. R E Smith	APPROVED: ASST. DIR. K. T. Perkins
TITLE: PRESERVICE INSPECTION	EFFECTIVE DATE:

1.0 PURPOSE AND SCOPE

1.1 This procedure describes the activities of Quality Control Services & Inspection (QCS&I) personnel. It assigns responsibilities for the implementation and completion of shop and field preservice examinations for the WNP-2 Project.

1.2 The scope of activities covered by this procedure shall be accomplished in accordance with the applicable Preservice Inspection Program Plan prepared or approved by the Supply System Engineering Department.

1.3 Preservice Inspection activities herein are quality affecting and shall conform to the guidelines by the Supply System Operational Quality Assurance Program Description (WPPSS-QA-004).

2.0 DEFINITIONS

2.1 Evaluation Review Team - The group responsible for evaluating reportable indications submitted to the team by the ISI Engineer, and issuing any resulting nonconformance reports. The team consists, as a minimum of the ISI Engineer as team leader and a representative from Project Engineering, Generation Services, and the PSI Contractor.

2.2 ISI Engineer - The individual within the Supply System ISI and Operations Support Engineering Section, assigned by the Supervisor of the section, responsible for implementation of the ISI Program Plan, and Evaluation Review Team Committee leadership.

2.3 ISI Field Coordinator - The NDE Specialist responsible for the Field Preservice Inspections and on-site liaison with the Authorized Nuclear Inspector.

2.4 NDE Specialist - The individual within Generation Services' QCS&I Subsection assigned by the Superivsor, QCS&I, responsible for the technical conduct of the Preservice Inspections, including the review and approval of NDE documentation.

2.5 Plant Technical Engineer - The individual within the Plant Technical staff who has been assigned by the Plant Superintendent or the Assistant Plant Superintendent to participate in the Preservice Inspection activities.

2.6 Preservice Inspection Program Plan - The Preservice Inspection Program Plan is a formal Supply System document developed by ISI and Operations Support Engineering for each WNP unit. The program delineates the scope of work required and examinations needed to satisfy ASME Section XI Code and other Regulatory Guide requirements.

2.7 Preservice Inspection Schedule - The Preservice Inspection Schedule is a two level written schedule, developed by Central Maintenance QCS&I, based on the project construction and startup schedule. The first level will show the broad ISI functions and responsibilities for their completion on a quarterly basis. The second level will be a monthly examination schedule, by system, which will show both scheduled and completed work.

The preservice Inspection Schedule will be updated on a monthly basis in conjunction with Test and Startup and the ISI Contractor.

2.8 Project Engineer - The individual within the Project Engineering Section assigned responsibility by the Project Engineering Manager for Project Engineering activities associated with PSI examinations.

2.9 Test Engineer - The individual within the Plant Test and Startup Department, assigned by the Startup and Operations Manager, responsible for association with all PSI examinations.

3.0 PROCEDURE

3.1 Field Preservice Examinations

Responsibility		Action
ISI Engineer	.1	Provides an approved Preservice Inspection Program Plan and appropriate IOM's describing the activity requested from QCS&I.
	.2	Develops Request for Proposal to obtain a Preservice Inspection Contractor.
ISI Field Coordinator	.3	Reviews, comments and concurs with the Request for Proposal.
	.4	Participates in the review of proposals submitted by PSI Proposers.
	.5	Participates in the technical evaluation of the PSI Contractor.
	.6	Meets with the Project Engineer and the ISI Engineer to outline the PSI Schedule.
	.7	Prepares the PSI Schedule based on the PSI Program Plan and the project construction/ startup schedule.

3.1 (Cont.)

Responsibility		Action
	.8	Drafts the PSI Schedule showing quarterly functions and a monthly activity detail for the immediate 90 day period.
ISI Engineer/Test Engineer	.9	Concurs with the PSI Schedule.
ISI Field Coordinator	.10	Prepares instructions per Reference 4.3.d for conduct of the Preservice Examinations within the QCS&I work scope.
	.11	Arranges with Projects for preparation of a PSI work area, to contain office materials and NDE equipment including calibration blocks.
	.12	Fabricates, accepts, controls and inventories all calibration blocks within the QCS&I work scope per Reference 4.3.b.
	.13	Participates in the planning meetings with the PSI Contractor.
	.14	Integrates the PSI Contractor's equipment and manpower availability into the overall PSI Schedule.
	.15	Performs or supervises the visual examination of welds and componenets within the QCS&I work scope following installation and weld preparation for PSI.
	.16	Performs or supervises the NDE examinations within the QCS&I work scope per PSI Program Plan.
	.17	Maintains an NDE data control system per Reference 4.3.c for the PSI records generated by the QCS&I personnel.
	.18	Performs Technical surveillance of the PSI Contractor's NDE activities per Reference 4.3.a to determine compliance with the PSI Program Plan and the Contractor's NDE procedures.

3.1 (Cont.)

Responsibility		Action
	.19	Reviews NDE calibration and data sheets for completeness and accuracy, including the necessary signatures.
	.20	Submits the data records and evaluation documents to the Authorized Nuclear Inspector to obtain the Inspector's signature.
	.21	Resolves discrepancies between the Authorized Nuclear Inspector and the PSI Contractor to obtain the Inspector's signature.
ISI Field Coordinator/ISI Engineer	.22	Meet on a recurring basis to assess schedule status of PSI Contractor.
ISI Field Coordinator	.23	Documents any accessibility problems for NDE examination and recommends corrective action or alternative examinations. Submits "Access Verification Finding Report" (AVFR) (form WP-578) to the ISI Engineer.
ISI Engineer/Test Engineer	.24	Reviews and takes appropriate action per Reference 4.4.a.
ISI Field Coordinator	.25	Evaluates NDE data and flags indications that are significant under the guidelines set by Reference 4.3.d.
	.26	Transmits NDE data and evaluations to the Supply System PSI data file in accordance with Reference 4.3.c.
	.27	Transmits NDE data and evaluations of significant indications along with the RFD, to the ISI Engineer for action by the Evaluation Review Team in accordance with Reference 4.3.d.
ISI Engineer	.28	Schedules the Evaluation Review Team as necessary.

3.1 (Cont.)

Responsibility		Action
Evaluation Review Team	.29	Reviews, evaluates, and confirms or rejects the acceptability of reported NDE data, evaluations and documents, the disposition of reported indications on an "Evaluation Review Team Report" per Reference 4.4.a.

3.2 Shop Preservice Examinations

Responsibility		Action
ISI Engineer	.1	Provides appropriate IOM's describing activity requested from QCS&I.
	.2	Develops necessary interfaces with the shop examination Contractor and the Authorized Nuclear Inspector.
	.3	Submits Shop PSI Examination Contractor's Plan, Procedures and Personnel Certifications to QCS&I in accordance with Reference 4.4.a.
NDE Specialist	.4	Reviews, comments, or concurs with the Shop Examination Contractor's Plan, Procedures, and Personnel Certifications per Reference 4.3.a.
	.5	Concurs with the resolution of technical NDE questions within the scope of the Shop Preservice Examination.
ISI Engineer/NDE Specialist	.6	Documents the discussions and agreements reached between themselves and the shop Examination Contractor.
	.7	Maintains liaison with the Authorized Nuclear Inspector to obtain his concurrence with the Shop Preservice Examination Plan, Procedures, and Personnel Certifications.
	.8	Provides technical surveillance during the Shop Preservice examination per Reference 4.3.a.

3.2 (Cont.)

Responsibility		Action
	.9	Reviews and accepts Shop PSI examination data records and evaluation documents after verifying their technical content and completeness.
	.10	Submits the data records and evaluation documents to the Authorized Nuclear Inpsector for signature.
	.11	Resolves discrepancies between the Authorized Nuclear Inspector and the Shop Examination Contractor.

4.0 REFERENCES

4.1 Preservice Inspection Program Plan (Plant Unique Program) containing Code Edition/Addenda applicability.

4.2 ASME Boiler and Pressure Vessel Code Sections III, V and XI.

a. Section III, Nuclear Power Plant Components
b. Section V, Nondestructive Testing
c. Section XI, Rules For Inservice Inspection Of Nuclear Power Plant Components - Division 1

4.3 Central Maintenance QCS&I Program Manual Instructions

a. INP 3-6 Examination Contractors
b. INP 3-9 NDE Calibration Blocks and Standards
c. INP 3-10 Examination Data
d. INP 3-11 Data Evaluation
e. INP 3-14 Preparation and Control of QCS&I Instructions

4.4 Engineering Division Procedures

a. EDP 9-3, Conduct of Preservice Examinations

4.5 Topical Report WPPSS-QA-004 Operational Quality Assurance Program

5.0 ATTACHMENTS

None

WASHINGTON PUBLIC POWER SUPPLY SYSTEM	NO: INP 3-11
ISI/NDE PROGRAM	REV: Interim
	RESP. ORG: QCS&I
Interim Approval QCS&I Supv. [signature] 3/16/79	Interim Approval Dept. Mgr. [signature] 3/16/79
TITLE: DATA EVALUATION	EFFECTIVE DATE: 3/16/79

1.0 PURPOSE AND SCOPE

This procedure describes the method for QCS&I personnel by which indications recorded during the performance of the WNP-2 Preservice Inspection (PSI) Inservice Inspection (ISI), or other specialized examinations are documented and monitored during evaluation and disposition. Collection of data is described in a separate Procedure, 3-10.

2.0 DEFINITIONS

2.1 Data Controller - The individual delegated by the ISI Field Coordinator responsible for the maintenance of records from the time of receipt from the Field Supervisor until the final transmittal to Engineering Document Control.

2.2 Evaluation - As used pertaining to indications, the process of applying Code acceptance criteria to determine the acceptability or rejectability of an indication.

2.3 Evaluation Review Team - The group responsible for evaluating reportable indications submitted to the team by the ISI Engineer, and issuing any resulting nonconformance reports. The team consists, as a minimum, of the ISI Engineer as team leader and a representative from Project Engineering, Generation Services, and the PSI Contractor.

2.4 Indication - Evidence or signal obtained by application of an examination technique, that may reveal the presence of a flaw or surface degradation, or may be caused by geometry or material properties.

2.5 ISI Engineer - The individual within the Supply System ISI and Operations Support Engineering Section, assigned by the Supervisor, of that section, responsible for implementation of the ISI Program Plan, and Evaluation Review Team Committee leadership.

2.6 ISI Field Coordinator - The NDE Specialist within Generation Services' QCS&I Subsection assigned by the Supervisor, QCS&I, responsible for the Field Preservice Inspections and on-site liaison with the Authorized Nuclear Inspector.

2.7 ISI Field Supervisor - The individual (employed by the Supply System or a subcontractor) responsible for conduct of the examination.

2.8 Project Engineer - The individual within the Project Engineering organization, assigned by the Project Engineering Manager, responsible for interface for all PSI Examination Activities.

2.9 Recordable Indication - An indication which equals or exceeds Owner recording criteria. The Owner recording criteria may be more restrictive than the Code requirements.

2.10 Request For Disposition (RFD) - The form used by QCS&I personnel to document requests to ISI Engineering for disposition.

2.11 Sizing of Indications - Application of the sizing criteria given in ASME Section XI, IWB-3000 and IWC-3000, to determine the size of a flaw indication - part of the evaluation process.

2.12 Test Engineer - The individual within the Plant Test and Startup Department, assigned by the Startup and Operations Manager, responsible for association with all PSI examinations.

3.0 PROCEDURE

3.1 Preservice Inspection at WNP-2

Responsibility		Action
Field Supervisor	.1	Collects and forwards records in accordance with Reference 4.2.
ISI Field Coordinator or His Designee	.2	Evaluates all recordable indications.
	.3	Completes an evaluation sheet (Attachment 5.1) in accordance with Reference 4.3.
	.4	Forwards evaluation sheets to the Data Controller.
	.5	Prepares a RFD (Attachment 5.2).
	.6	Forwards the record copy of the RFD, along with the evaluation sheet and accompanying information, to the ISI Engineer for action and transmitts information copies to the Project Engineer, QCS&I Supervisor and the Startup and Operations Manager.
ISI Engineer	.7	Convenes the Evaluation Review Team per Reference 4.1 to disposition the RFD and assures generation of the Evaluation Review Team Report (ERTR).

3.1 (cont.)

Responsibility		Action
	.8	Works with Project Engineer (prior to system provisional acceptance) or the Test Engineer (following system provisional acceptance) to obtain corrective action per ERTR via the Request for Information (RFI) or the Startup Work Request (SWR, respectively.
	.9	Forwards the completed RFD package to the ISI Field Coordinator.
ISI Field Coordinator	.10	Reviews returned RFD for completion.
	.11	Clears component for service.
	.12	Forwards complete RFD to the Data Controller.
Data Controller	.13	Processes records according to Reference 4.2 requirements.

4.0 REFERENCES

4.1 EDP 9.3 Preservice Examination

4.2 INP 3-10 Examination Data

4.3 QCS&I-009 Evaluation Sheet Completion

5.0 ATTACHMENTS

5.1 Evaluation Sheet

5.2 Request for Disposition

5.3 Flow Sheet

1. Eval. Sheet = ___

EVALUATION SHEET

2. PLANT _____ 3. DATE _____

4. ORIGINATOR _____ 5. TYPE OF EXAMINATION _____

6. EXAMINATION PROCEDURE NO. ____ REV. NO. _____

7. ITEM EXAMINED _____

8. ITEM I.D. NO. _____

9. LOCATION _____

10. DESCRIPTION OF RECORDABLE CONDITION

11. EVALUATION

Indication due to:

/ / Geometry / / Material Properties / / Other

/ / Flaw Size ≤ 80% of the acceptance level

/ / Flaw Size > 80% of the acceptance level (requires Evaluation Review Board Action and RFD documentation)

12. JUSTIFICATION

13. COMPLETED BY _____ DATE _____

LEVEL III _____ NDE METHOD _____

1. R.F.D. _____

REQUEST FOR DISPOSITION

2. PLANT _____ 3. DATE _____

4. ORIGINATOR _____ 5. TYPE OF EXAMINATION _____

6. EVALUATION SHEET NO. _____

7. ITEM EXAMINED _____

8. ITEM I.D. NO. _____

9. LOCATION _____

10. DESCRIPTION OF CONDITION REQUIRING EVALUATION REVIEW BOARD ACTION

DISPOSITION

11. ACCEPTABLE AS IS / /

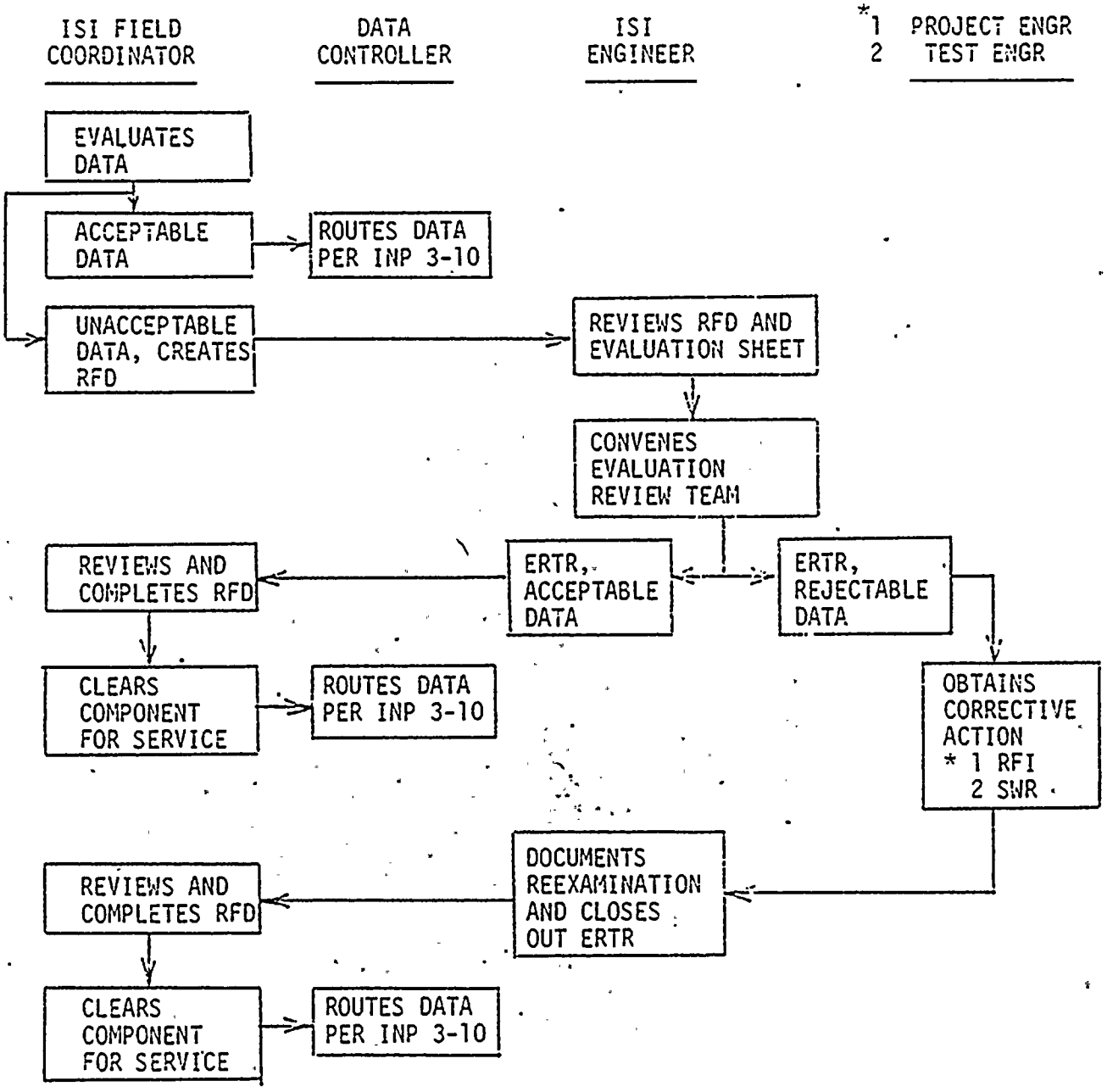
12. UNACCEPTABLE / /

13. UNACCEPTABLE CONDITION RECORDED ON:

NCR _____

14. DISPOSITIONED BY _____ DATE _____
REVIEW BOARD LEADER

15. COMPONENT CLEARED FOR SERVICE BY
ISI FIELD COORDINATOR _____ DATE _____



Footnote

* 1 Prior to system provisional acceptance

2 Following system provisional acceptance

Date 7/27/79
Revision 1

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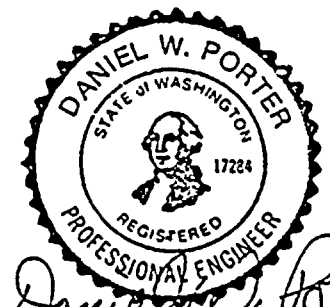
Superseded per Amdt #2 to Preservice Insp. Program dtd 12-31-80
50-397

RECORD OF PROGRAM PLAN REVISIONS



Daniel W. Porter
2/13/79

NO.	DATE	REVISIONS	BY	CHK'D	APP'D
1	9/14/79	Issued Amendment 1		R.W. Porter	
0	1/29/79	Issued for Use			

DATE 7-27-79
REVISION 1

VOLUME I

TITLE	SHEET	REV	TITLE	SHEET	REV	TITLE	SHEET	REV
Title Sheet	1	NA	4.0 Code	4-1	0		5-26	0
Sign Page	1	0	Commitments				5-27	0
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				6	0		5-34	0
3.0 Record of	3-1	1		7	0		5-35	0
Revisions	3-2	1		8	0		5-36	0
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	3-3a	1					5-38	0
	3-4	1						
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	10	0		19	0		2	0
	11	0		20	0		3	0
	12	1		21	0		4	1
	13	1					5	1
	14	1	MS-204	1	0		6	0
	15	0		2	0		7	0
	16	0		3	1		8	0
	17	0		4	0		9	0
	18	0	Tables	1	0		10	0
	19	0		2	0			
	20	0		3	0			
	21	0		4	0			
	22	0		5	0	RFW-102	1	0
				6	0		2	0
				7	0		3	2
				8	0		4	2
				9	0		5	2
MS-203	1	0		10	0	Tables	1	0
	2	0		11	0		2	0
	3	1		12	1		3	0
	4	0		13	1		4	0
Tables	1	0		14	1		5	0
	2	0		15	0		6	0
	3	0		16	0		7	0
	4	0		17	0		8	1
	5	0		18	0		8a	1
	6	0		19	0		9	0
	7	0		20	0		10	0
	8	0					11	0
	9	0						
	10	0	MS-205	1	0	RFW-103	1	1
	11	1	Tables	1	0	Tables	1	0
	12	1					2	0

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TITLE	SHEET	REV	TITLE	SHEET	REV	TITLE	SHEET	REV
	3	0		25	0			
RRC-101 -	1	1	RRC-102	1	0	RRC-103	1	0
	2	0		2	1	Tables	1	0
	3	1		3	1		2	0
	4	1		4	1			
	5	1		5	1			
	6	1		6	1	RRC-104	1	0
	7	1		7	1	Tables	1	0
	8	1		8	1		2	0
Tables	1	0	Tables	1	0		3	0
	2	0		2	0			
	3	1		3	0	RRC-105	1	1
	3a	1		4	0	Tables	1	0
	4	0		5	0		2	0
	5	1		6	0		3	0
	6	1		7	0		4	1
	7	0		8	0		4a	1
	8	0		9	1			
	9	0		10	0	RRC-106	1	0
	10	0		11	0	Tables	1	0
	11	0		12	1		2	0
	12	0		12a	1		3	0
	13	1		13	1			
	13a	1		14	1			
	14	1		14a	1	RRC-107	1	0
	15	1		15	0	Tables	1	0
	15a	1		16	1		2	0
	16	0		16a	1		3	0
	17	1		17	0			
	17a	1		18	1			
	18	0		18a	1	RRC-108	1	0
	19	1		19	0	Tables	1	0
	19a	1		20	1		2	0
	20	0		20a	1			
	21	1		21	1			
	21a	1		22	1			
	22	0		22a	1			
	23	1		23	1			
	23a	1						
	24	1						

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TITLE	SHEET	REV	TITLE	SHEET	REV	TITLE	SHEET	REV
RRC-109	1	0	CRD	1	1			
Tables	1	0						
	2	0				DW	1	0
RRC-110	1	0	SLC	1	0			
Tables	1	0						
			SSW	1	0			
RRC-111	1	0				EDR-201	1	0
Tables	1	0				FDR-201	1	0
RWCU-101	1	1						
	2	1	FPC	1	0			
	3	1						
	4	1				MSLC	1	0
	5	1						
Tables	1	1						
	2	1						
	3	1						
	4	1						
	5	1						
	6	1						
	7	1	RRC	1	0			
	8	1						
	9	1				MISC	1	0
	10	1						
	11	1						
	12	1						

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TITLE	SHEET	REV	TITLE	SHEET	REV	TITLE	SHEET	REV
9.0 Visual	9-1	1	UTCB-203	1	0		12-15	1
Exam. Prog.	9-2	0	UTCB-204	1	0			
	9-3	0	UTCB-205	1	0			
	9-4	0	UTCB-206	1	0			
	9-5	1	UTCB-207	1	0	LMT Man.	Cover Sht.	1
			UTCB-208	1	0	Plan.	1	1
			UTCB-209	1	0		2	1
			UTCB-210	1	1		3	1
10.0 Proce-	10-1	1	UTCB-211	1	1		4	1
dures	10-2	0		11-5	0		5	1
	10-3	0		11-6	0		6	1
	10-4	0		11-7	1		7	1
	10-5	1		11-8	0		8	1
				11-9	0		9	1
							10	1
							11	1
11.0 UT	11-1	0	UTCB-220	1	4		F	1
Cal. Std.	11-2	0	UTCB-221	1	4			
	11-3	1	UTCB-222	1	0			
	11-4	1	UTCB-223	1	0			
			UTCB-224	1	0	LMT Company	1	0
			UTCB-225	1	0	Policy	2	0
UTCB-101	1	0					3	0
UTCB-102	1	0					4	0
							5	0
UTCB-104	1	0	12.0 Manage-	12-1	0		6	0
UTCB-105	1	0	ment Plan	12-2	0		7	0
UTCB-106	1	0		12-3	1		8	0
UTCB-107	1	0		12-4	0			
UTCB-108	1	0		12-5	1			
UTCB-109	1	0		12-6	0			
UTCB-110	1	0		12-7	1	13.0 QA	1	1
UTCB-111	1	0		12-8	0			
				12-9	1	14.0 Exam.	14-1	0
				12-10	1	Equipt.	14-2	0
				12-11	1			
				12-12	0	APP 14A	14A-1	0
				12-13	1		14A-2	A
				12-14	1			

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TITLE	SHEET	REV	TITLE	SHEET	REV	TITLE	SHEET	REV
RPV-103	1	1						
RPV-104	1	A						
APP 14B	14B-1	0						
15.0 PSI	15-1	0						
Report	15-2	0						
Submittal	15-3	0						
	15-4	0						
	15-5	0						
	15-6	0						

TABLE 5.2-12 (Continued)

SECTION B. PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
				selected for examination in the Examination Category B-J will be examined by the end of the interval. Note (a).	removed, or when the bolted connection is disassembled.
B4.4	B-G-1	Pressure-retaining bolting greater than 2-inch diameter	Visual	The examinations performed during each inspection interval will include 100% of the bolts, studs, nuts, bushings, and threads in base material, and flange ligaments between threaded holes in the piping runs selected for examination in the Examination Category B-J.	All bolting larger than 2 inches in diameter will be examined in place under tension, when the bolting is removed, or when the bolted connection is disassembled. *
B4.5	B-J	Circumferential piping welds ~~in nominal pipe sizes 4 inches and greater~~ to include base metal for a distance of 1/2T or 1 inch, ** whichever is smaller, to each side of the weld, and at least ~~a pipe diameter length but not more than~~ 12 inches of each longitudinal weld intersecting the circumferential welds required to be examined.	Volumetric *** and surface	~~The examination performed during each inspection interval will include 100% of the welds in the following portions of the reactor coolant pressure boundary:~~ ~~(a) one reactor coolant recirculation loop;~~ ~~(b) one branch run representative of an essentially symmetric piping configuration among each group of branch runs that are connected to a loop and that perform similar system functions;~~ ~~(c) one steam line run representative of an essentially symmetric piping configuration among the runs;~~ 100% of the Class 1 piping welds will be examined during the baseline. The Inservice Programs will be in accordance with 10CFR50.55a	The initially selected welds will be reexamined during each inspection interval.

*Refer to Section 7, Exceptions and Exemptions , for justification for this exception.
**Refer to Section 10, Code Exceptions, for use of Appendix III to ASME Section SI.
***Surface examination is a WPPSS augmented requirement.

TABLE 5.2-12 (Continued)

SECTION B. PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-year Interval	Remarks
				(d) one feedwater line run representative of an essentially symmetric piping configuration among the runs; (e) each piping and branch exclusive of the categories of loops and runs that are part of the system piping of (a) to (d) above. Note (a).	
~~B4.5~~	~~B-J~~	Circumferential piping welds in nominal pipe sizes less than 4 inches in diameter to include base material for a distance of 1/2T or 1 inch, whichever is smaller, to each side of the weld.	~~Surface~~	The examination performed during each inspection interval will include 100% of the welds in piping less than 4-inch nominal diameter which is in or connected to the following portions of the reactor coolant pressure boundary: (a) one reactor coolant recirculation loop; (b) one branch run representative of an essentially symmetric piping configuration among each group of branch runs that are connected to a loop and that perform similar system functions; (c) one steam line run representative of an essentially symmetric piping configuration among the runs;	~~The initially selected welds will be reexamined during each inspection interval.~~

TABLE 6.6-1 (Continued)

SECTION B PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C2.2 C2.1	C-F, C-G	Piping butt welds t greater than 1/2 inch	Surface and* volumetric	The examinations performed during each inspection interval will cover 100% of the welds in those portions of piping and branch runs required to be examined.	The examination areas shall include circumferential welds and at least a 2-1/2t length of each longitudinal weld intersecting a circumferential weld. The selection of the circumferential welds to be examined will be determined by one of the following: (1) those locations corresponding to design basis pipe breaks, as may be calculated by the application of design criteria for protection against postulated piping failures, or (2) the terminal ends of piping or branch runs and other locations of structural discontinuities. The examination of welds in each piping system will be limited to those welds in one run or distributed among pipe runs (or portions of runs) that are essentially similar in design, size, system function and service conditions. The welds initially selected for examination will be reexamined over the service lifetime of the piping component. See Note (a).

100% of the nonexempt circumferential and longitudinal welds will be examined during the baseline. The Inservice Programs will be in accordance with 10CFR50.55a. The requirements of categories C-F and C-G as stated in Section XI, Table IWC-2520 will be applicable.

*Surface examination is a WPPSS augmented requirement.

TABLE 6.6-1 (Continued)

SECTION B PIPING

Item No.	Category	Examination Area	Examination Method	Tentative Inspection During 10-Year Interval	Remarks
C2.3	C-F	Pipe branch connection welds	Surface *	The examination performed during each inspection interval will cover 100% of the branch connection welds in those portions of piping selected for examination under Items C2.1 and C2.2.	The examination area will include the weld surface and 1/2 inch of base material to each side of the weld. The welds initially selected for examination shall be examined over the service lifetime of the piping component. See Note (a).
~~C2.4~~ C2.5	C-E-1	Integrally-welded supports for piping ~~whose base material design thickness exceeds 3/4 inch~~	Surface	The examination performed during each inspection interval will cover 100% of the welds in the support of those components required to be examined under Examination Category C-F.	The examination area will include the weld surface and 1/2 inch of base material to each side of the weld. See Note (a). & 2 support thicknesses of support member base material.
~~C2.5~~ C2.6	C-E-2	Support components for piping	Visual	The examination performed during each inspection interval will cover all support components of components required to be examined under Examination Category C-F.	The areas will include the support components that extend from the piping to the supporting structures. support settings The ~~functional operability~~ of spring-type hangers, snubbers, and shock absorbers will be confirmed. See Note (a).

*Refer to Section 7, Exceptions and Exemptions , for justification for a surface in lieu of a volumetric examination of pipe branch connection welds.

Fuel Load 3/81

Commercial Ops 9/81

WNP-2 PRESERVICE INSPECTION SCHEDULE

	3/ 79	4/ 79	5/ 79	6/ 79	7/ 79	8/ 79	9/ 79	10/ 79	11/ 79	12/ 79	1/ 80	2/ 80	3/ 80	4/ 80	5/ 80	6/ 80	7/ 80	8/ 80	9/ 80
Begin Manual Examinations	⬡																		
RPV Hydro													⬡						
Begin Mechanized Exams									⬡										
Complete Preservice Inspection																⬡			
File Final Report																			⬡

Date 7-27-79

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Code Requirement - Examine all nonexempt circumferential and longitudinal piping welds using a volumetric method.

Exception/Alternative Examination - Circumferential and longitudinal welds in nonexempt piping less than 4-inch nominal pipe size will be examined using a surface in lieu of volumetric method.

Justification - This exception applies primarily to the following welds in the stated piping systems:

3" CRD Nozzle N-10, safe-end-to-cap weld
3" RFW (11)-4, CRD/RFW cross-tie, 2 welds
3" RRC (51)-4, vessel drain, 9 welds
2" RRC (51)-4, vessel drain, 11 welds
2" RRC (6)-4S, loop A&B drains, 14 welds

All piping is seamless carbon steel.

This exception is consistent with later edition and addenda of ASME Section XI to which WNP-2 Inservice Inspection Programs will be subject to. There have been no known objections to this criteria expressed by the NRC in their draft revision to 10 CFR 50, dated April 11, 1978, which proposes to accept editions and addenda of ASME Section XI through the winter 1977 addenda with specific augmented examination requirements stated in the regulation.

Note that there are other Class 1, 2- and 3-inch pipes (e.g., mainsteam drains, head vent) in the

WNP-2 primary system. However, they are exempt based on makeup capability of the normal reactor makeup systems as explained later in this section. Note also that WPPSS, on a voluntary basis, will perform surface examinations on all circumferential and longitudinal welds in nonexempt Class 1 piping 4 inches in diameter and greater in anticipation of the later code editions and addenda which will govern the WNP-2 Inservice Programs.

2) Subarticle IWB-2600, Table IWB-2600, examination item B1.18, Control Rod Drive Housing to Stub Welds:

Code Requirement - Examine 100% of the welds in 10% of the peripheral control rod drive housings using a volumetric examination method. Note that subarticle IWB-1220; paragraph (b)(1), a component may be exempted from volumetric examination if, under postulated conditions of loss of coolant from the component during normal reactor operation, the reactor can be shutdown and cooled down by the reactor coolant makeup systems only. This exemption is limited to 3" nominal pipe size components only.

Exception/Alternative Examination - Control rod drive housings will be subjected to a visual examination for evidence of leakage in lieu of a volumetric examination, even though they exceed 3" nominal pipe size.

Justification - The difference between the 6.000" outside diameter CRD housing and the 6.020" inside diameter stub tube provides an annulus between the two parts of 0.010" with CRD housing supports in

place (these meet NRC rod ejection criteria) and assuming that the stub tube to CRD housing weld experiences a 360^0 break, there would result an effective leak area of 0.189 sq. in. The CRD housing supports would prevent ejection of the housing.

Assuming saturated conditions at 1,000 psi in the RPV at the time of the break, and assuming no friction losses, the maximum flow rate of reactor water out of the break described above would be 8,000 lbm/sec ft^2(1).

Leakage = 8,000 lbm/sec ft^2 X 0.189 in^2 X

$$\frac{ft^2}{144\ in^2} \times 0.021\ \frac{ft^3}{lbm} \times 7.48\ \frac{gal}{ft^3} \times 60\ min/sec = 99\ gpm$$

This is clearly within the makeup requirements of the normal reactor makeup systems (see 7.2.2.a.1).

3) Subarticle IWB-2600, Table IWB-2600, examination category B-G-1, Pressure Retaining Bolting 2" and Larger in Diameter:

Code Requirement - Examine pressure retaining bolting 2" and larger in diameter using visual and surface and/or volumetric methods.

Exception/Alternative Examination - Pressure retaining bolting exceeding 2" diameter will be examined using a volumetric method when examined in place, and using volumetric, surface and visual methods when examined after removal. Pressure retaining bolting less than or equal to 2" nominal diameter will be examined using a visual method.

Justification - This is consistent with the ASME Section XI examination requirements for Class 1 bolting which were adopted subsequent to issuance of the Summer 1975 addenda, with the applicable ASME Section III examination criteria and with the anticipated Section XI criteria to which the WNP-2 inservice examinations will be conducted.

4) Subarticle IWB-1220(c), Visual Examination of Exempted Components:

Clarification - Components exempted from examination in accordance with IWB-1220(a) and (b) will be examined subject to the requirements of category B-P of Table IWB-2500 with the following clarification. Instrument lines which penetrate primary containment will be examined for evidence of leakage through the containment penetrations, though the excess flow check valves up to the point at which there is a transition to instrument tubing. Instrument tubing is not subject to ASME Section XI.

b. ASME Section III, Class 2 Systems

1) Subarticle IWC-2600, Table IWC-2600, examination item C2.3, Piping Branch Connection Welds:

Code Requirement - Examine branch pipe connection welds in nonexempt systems using a volumetric method.

3) Subarticle IWC-2600, Table IWC-2600, examination category C-D, Pressure Retaining Bolting Exceeding 1" Nominal Diameter:

Code Requirement - Examine all pressure retaining bolting exceeding 1" diameter using visual and either surface or volumetric methods.

Exception/Alternative Examination - Pressure retaining bolting exceeding 2" nominal diameter will be examined using a volumetric method when examined in place, and using volumetric, surface and visual methods when examined after removal. Pressure retaining bolting less than or equal to 2" nominal diameter will be examined using a visual method.

Justification - This is consistent with the ASME Section XI examination requirements for Class 2 pressure retaining bolting which were adopted in the code addenda and edition issued subsequent to Summer 1975, and with the anticipated Section XI criteria to which the WNP-2 inservice examinations will be conducted. This is also consistent with the examination requirements for Class 1 pressure retaining bolting.

7.2.2. Exemptions

a. ASME Section III, Class 1 Systems

1) Subarticle IWB-1220:

The exemptions of this subarticle were applied to each system as explained following each ISI

Boundary Diagram. The following calculation is provided to support the exemption allowed by IWB-1220(b)(1), exemption based on leakage from the component not exceeding the normal reactor makeup system capacity.

Assumptions:

1) The normal reactor makeup systems have the ability to maintain reactor coolant inventory during startup, hot standby, operation or cooldown using on-site power. For WNP-2, the following normal reactor makeup systems are available for reactor water makeup with their respective nominal capacities:

SYSTEM	CAPACITY (GPM)
RCIC Pump	600
CRD Pump	170
TOTAL	770

2) The break is assumed to result in a high dry well pressure condition within a few seconds with a resulting scram. The CRD system capacity is based on 0.92 gpm bypass flow per each of 185 drives.(3)

3) The reactor is operating at 1,000 psi under saturated conditions at the time of the postulated break.

4) The leak rates at 1,000 psi, assuming no friction losses, are:

8,000 lbm/sec ft^2	water(1)
2,000 lbm/sec ft^2	steam(1)

5) Makeup water is injected @ 100°F, 0.0162 ft^3/lbm

Calculation:

$$\text{Makeup capacity} = 770 \text{ gal/min} \times \frac{1 \text{ ft}^3}{7.48 \text{ gal}} \times \frac{1 \text{ lbm}}{0.0162 \text{ ft}^3} \times \frac{1 \text{ min}}{60 \text{ sec}} = 106 \text{ lbm/sec}$$

$$\text{o°o Max. break area} = \frac{106 \text{ lbm/sec}}{8{,}000 \text{ lbm/sec ft}^2} = 0.0132 \text{ ft}^2 \text{ (water)}$$

$$= \frac{106}{2{,}000} = 0.053 \text{ ft}^2 \text{ (steam)}$$

This corresponds to 1.56" ID pipe (water)
3.12" ID pipe (steam)

The above is applied to the WNP-2 ISI boundaries as follows. Class 1 piping penetrating the RPV below the normal water level and 1.5" nominal pipe size or less, and piping penetrating above the normal water level and 3" nominal pipe size or less, may be exempted from volumetric and surface

examination and are subject only to a visual examination for evidence of leakage in accordance with IWB-1220(c).

b. ASME Section III, Class 2 Systems

1) Subarticle IWC-1220:

The exemptions of this subarticle were applied to each system as explained following each ISI Boundary Diagram. The following clarification is provided as a basis for applying the exemption criteria of IWC-1220(b).

IWC-1220(b) - Allows the exemption from volumetric and surface examinations for those components in systems or portions of systems, other than ECCS, which do not function during normal reactor operation.

Clarification - The steam condensing mode of the RHR system is not considered by the Supply System to be a mode of normal reactor operation. This system is considered an abnormal backup to the normal hot standby and depressurization systems. Normal hot standby is accomplished by by-passing the steam generated by reactor decay heat to the main condenser at a rate equal to the decay heat generation rate. Depressurization is by by-passing additional steam such that steam is removed from the reactor in excess of the decay heat generation rate. However, in the event of a loss

of off-site power and a subsequent loss of condenser vacuum, the steam condensing heat exchangers can be used as a substitute for the main condenser using the emergency onsite power source. This condition is considered abnormal rather than normal hot standby, and abnormal rather than normal reactor shutdown and depressurization.

The piping systems and components used solely for abnormal steam condensing, which involve portions of the RHR system and the portion of the RCIC system which supplies steam to the RHR heat exchangers, are shown as exempt on their respective Boundary Diagrams based on the exemption allowed by IWC-1220(b) as interpreted above.

c. ASME Section III, Class 3 Systems

1) Subarticle IWD:

The exemptions of this subarticle were applied to each system as explained following each ISI Boundary Diagram. In addition, the following generic exemptions are applied.

a) Radwaste Systems - Components were conservatively designed to the requirements of ASME Section III, Class 3 on a conservative and voluntary basis. Present Reg. Guide 1.143 criteria do not require such a classification as no postulated failure within the radwaste systems would result in a site boundary exposure in excess of 0.5 man·rem(4).

These systems are, therefore, not subject to the rules of Article IWD of ASME Section XI.

Following is a letter of clarification from the ASME which substantiates this exclusion.

b) Systems other Than Water, Steam, or Radioactive Waste Systems - These systems, such as the containment air systems and the diesel oil transfer system, are exempt from the requirements of Article IWD since the ASME Code is applicable only to water, steam and radioactive waste systems.

Following is a letter of clarification from the ASME which substantiates this exclusion.

Footnotes:

1) Maximum Flow Rate of a Single Component, Two Phase Mixture, F. J. Moody, ASME 64-HT-35.

2) WNP-2 FSAR, Section 6.2, Figure 6.2-14.

3) General Electric Process Flow Diagram, GE Drawing No. 112 D1448, Mode D, Point 23.

4) WNP-2 FSAR, Section 11.

WNP-2 ISI BOUNDARY DIAGRAM

Date 7-27-79

Revision 1

EXCEPTIONS AND EXEMPTIONS

ISI - 217

SYSTEM Miscellaneous Containment Penetrations

EXCEPTIONS:

Class 1 Piping and Components

° Not applicable; all penetrations on this drawing are Class 2, associated with Class 3 piping systems.

Class 2 Piping and Components

° No exceptions.

EXEMPTIONS APPLIED:

IWB-1220(a)(1)	No
(2)	No
(3)	No
(4)	No
*(b)(1)	No
(2)	No
(3)	No
IWC-1220(a)	Yes, all piping
*(b)	No
(c)	No
(d)	No
IWC-5220(d)	No
IWD-5200(c)	Yes, open ended drains inside dry well.

* See general exemption discussion for details.

Date 1/8/79
Revision 0

WNP-2 ISI BOUNDARY DIAGRAM

EXCEPTIONS AND EXEMPTIONS

ISI - 219

SYSTEM Reactor Core Isolation Cooling (RCIC) System

EXCEPTIONS:

Class 1 Piping and Components

- See general exceptions.
- No additional exceptions.

Class 2 Piping and Components

- See general exceptions.
- No additional exceptions.

EXEMPTIONS APPLIED:

IWB-1220(a)(1) Yes, per code class boundary.

(2) No

(3) No

(4) No

*(b)(1) No

(2) No

(3) Yes, all piping ≤ 1" NPS.

IWC-1220(a) Yes, pump suction lines.

*(b) Yes, 8" & 10" RCIC(12)-4, steam supply to RHR heat exchanger, not "normal use" system.

(c) Yes, all piping >4" NPS not exempted under (a),(b) or (c).

(d) Yes, all piping ≤4" NPS.

IWC-5220(d) Yes, all lines open ended to suppression pool.

IWD-5200(c) No

*See general exemption discussion for details.

Date 1/8/79

WNP-2 ISI BOUNDARY DIAGRAM

Revision 0

EXCEPTIONS AND EXEMPTIONS

ISI - 221

SYSTEM Residual Heat Removal (RHR) System

EXCEPTIONS:

Class 1 Piping and Components

- See general exceptions.
- No additional exceptions.

Class 2 Piping and Components

- See general exceptions.
- Additional exception as follows: The RHR pumps P-2A & P-2B will not be examined using surface or volumetric methods due to inaccessibility. See justification on following page. A visual examination for evidence of leakage will be performed in lieu of a volumetric examination.

EXEMPTIONS APPLIED:

IWB-1220(a)(1) Yes, per code class boundary.

(2) No

(3) No

(4) No

*(b)(1) Yes, 3" RHR(17)-2 (Sheet 2, Zone A-5/6)

(2) No

(3) Yes, all piping $\leq$1" NPS.

IWC-1220(a) Yes, pump suction lines.

*(b) Yes, 8" RHR(20)-4, 8" RHR(20)-2, 14" & 18" RHR(20)-2, 6" & 14" RHR(54)-2; steam condensing not "normal use" system.

(c) Yes, all piping >4" NPS not exempted by (a),(b) or (d).

(d) Yes, all piping $\leq$4" NPS.

IWC-5220(d) Yes, all open ended piping tc suppression pool.

IWD-5200(c) No

* See general exemption discussion for details.

WNP-2 ISI BOUNDARY DIAGRAM

Date 1/8/79

Revision 0

EXCEPTIONS AND EXEMPTIONS

ISI - 223

SYSTEM Reactor Water Cleanup (RWCU)

EXCEPTIONS:

Class 1 Piping and Components

° See general exceptions
° No additional exceptions

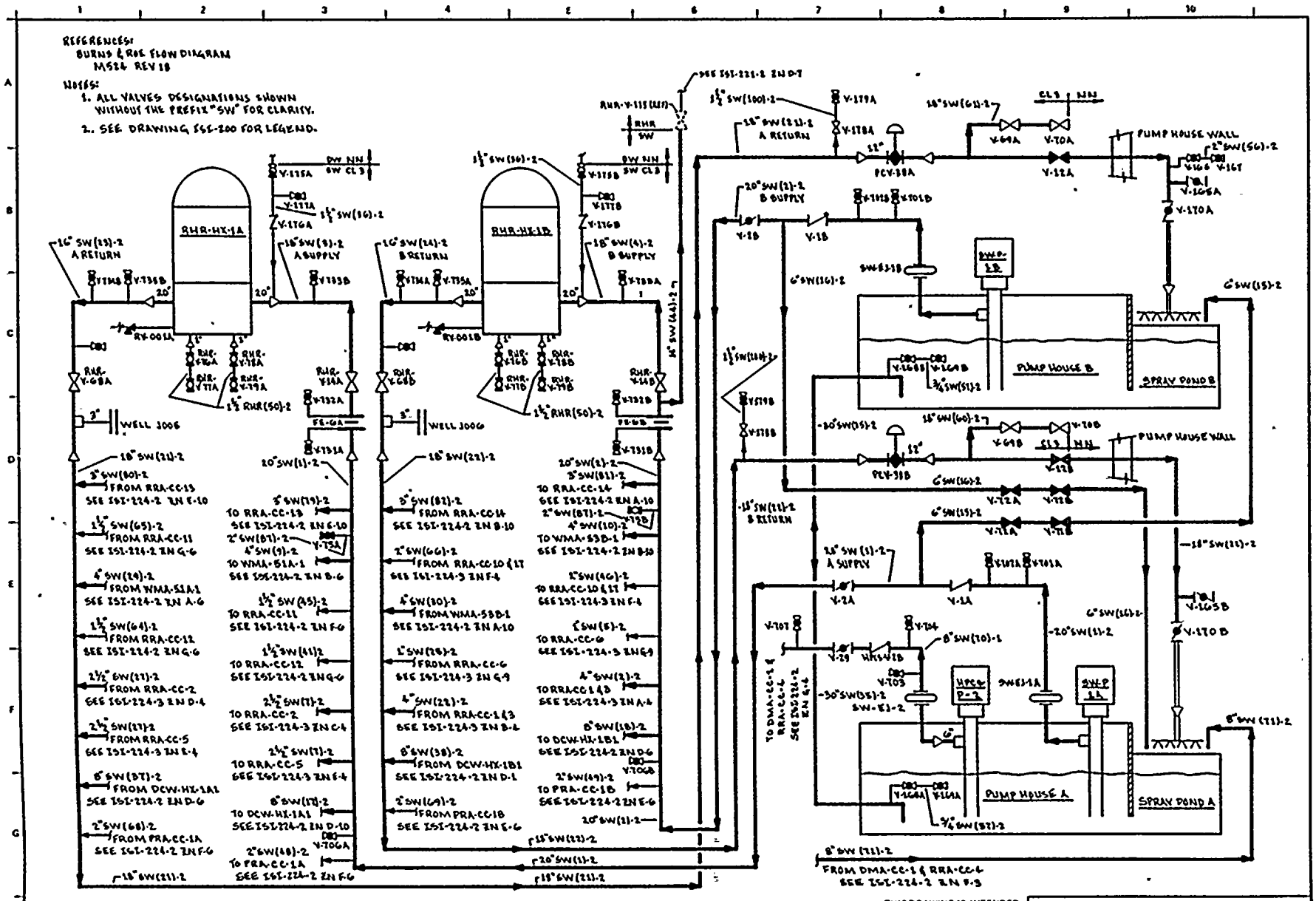
Class 2 Piping and Components

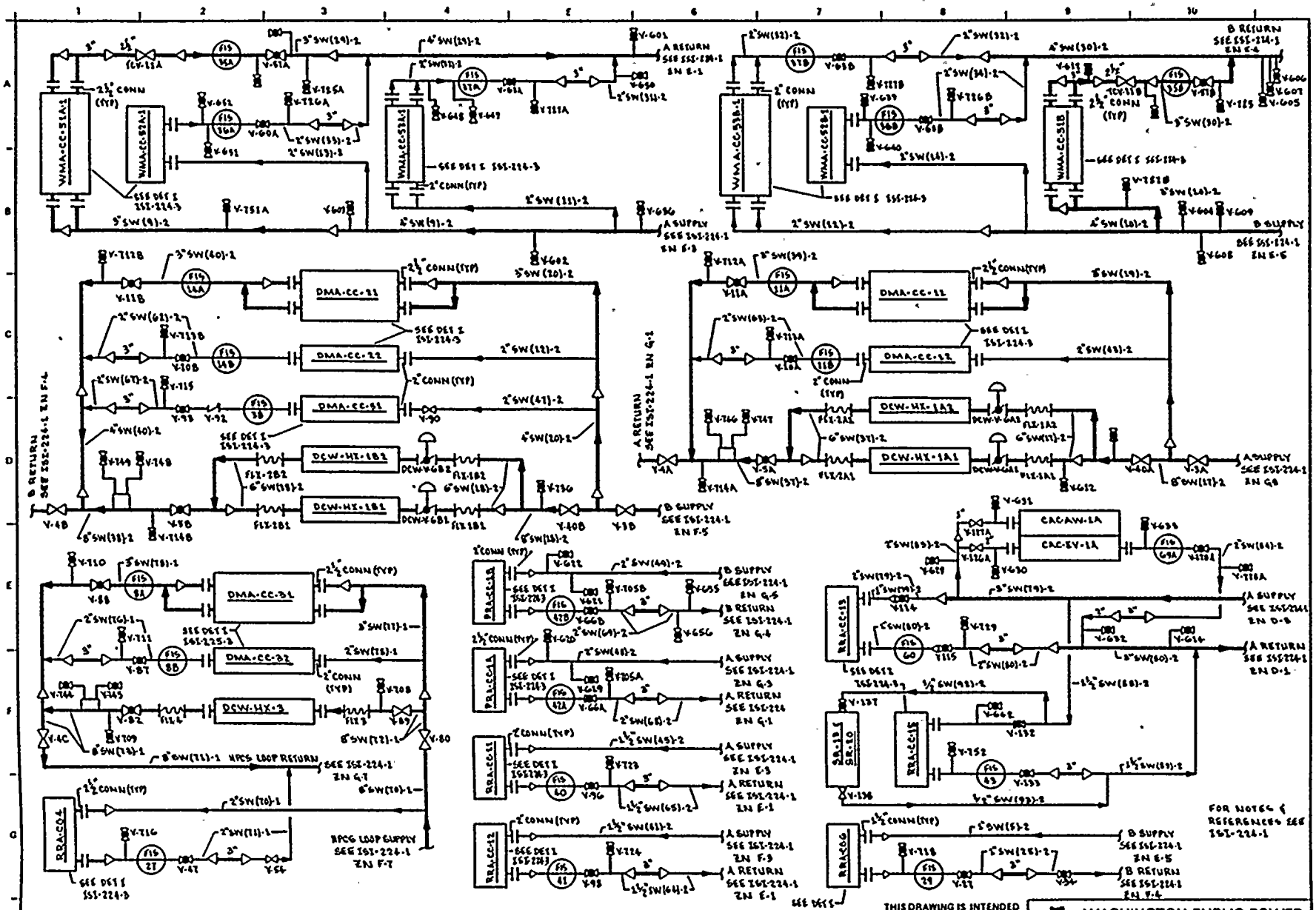
° See general exceptions
° No additional exceptions

EXEMPTIONS APPLIED:

IWB-1220(a)	(1)	Yes, per code class boundary
	(2)	No
	(3)	No
	(4)	No
	*(b)(1)	No
	(2)	No
	(3)	Yes, all piping $\leq$ 1" NPS
IWC-1220(a)		No
	*(b)	No
	(c)	No
	(d)	No
IWC-5220(d)		No
IWD-5200(c)		No

*See general exemption discussion for details.


REFERENCES:
BURNS & ROE FLOW DIAGRAM
M524 REV 18
NOTES:
1. ALL VALVES DESIGNATIONS SHOWN WITHOUT THE PREFIX "SW" FOR CLARITY.
2. SEE DRAWING ISI-200 FOR LEGEND.
RHR-HX-1A
RHR-HX-1B
PUMP HOUSE A
PUMP HOUSE B
SPRAY POND A
SPRAY POND B
PUMP HOUSE WALL
WELL 3006
A RETURN
A SUPPLY
B RETURN
B SUPPLY
FROM RRA-CC-13 SEE ISI-224-2 ZN E-10
FROM RRA-CC-11 SEE ISI-224-2 ZN G-6
FROM WMA-51A-1 SEE ISI-224-2 ZN A-6
FROM RRA-CC-12 SEE ISI-224-2 ZN G-6
FROM RRA-CC-2 SEE ISI-224-3 ZN D-4
FROM RRA-CC-5 SEE ISI-224-3 ZN E-4
FROM DCW-HX-1A1 SEE ISI-224-2 ZN D-6
FROM PRA-CC-1A SEE ISI-224-2 ZN F-6
TO RRA-CC-13 SEE ISI-224-2 ZN G-10
TO WMA-51A-1 SEE ISI-224-2 ZN B-6
TO RRA-CC-11 SEE ISI-224-2 ZN F-6
TO RRA-CC-12 SEE ISI-224-2 ZN G-6
TO RRA-CC-2 SEE ISI-224-3 ZN C-4
TO RRA-CC-5 SEE ISI-224-3 ZN E-4
TO DCW-HX-1A1 SEE ISI-224-2 ZN D-10
TO PRA-CC-1A SEE ISI-224-2 ZN F-6
FROM RRA-CC-14 SEE ISI-224-2 ZN B-10
FROM RRA-CC-10 & 17 SEE ISI-224-3 ZN F-4
FROM WMA-53B-1 SEE ISI-224-2 ZN A-10
FROM RRA-CC-6 SEE ISI-224-3 ZN G-9
FROM RRA-CC-1 & 3 SEE ISI-224-3 ZN B-2
FROM DCW-HX-1B1 SEE ISI-224-2 ZN D-1
FROM PRA-CC-1B SEE ISI-224-2 ZN E-6
TO RRA-CC-14 SEE ISI-224-2 ZN A-10
TO WMA-53B-1 SEE ISI-224-2 ZN B-10
TO RRA-CC-10 & 17 SEE ISI-224-3 ZN F-4
TO RRA-CC-6 SEE ISI-224-3 ZN G-9
TO RRA-CC-1 & 3 SEE ISI-224-3 ZN A-4
TO DCW-HX-1B1 SEE ISI-224-2 ZN D-6
TO PRA-CC-1B SEE ISI-224-2 ZN E-6
TO DMA-CC-1 & RRA-CC-4 SEE ISI-224-2 ZN G-6
FROM DMA-CC-1 & RRA-CC-4 SEE ISI-224-2 ZN F-3
SEE ISI-221-1 ZN D-7
PCV-33A
PCV-33B
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
ENGINEER D PORTER
DRAWN V. McELHOREW
DATE 10-4-78
WNP-2
INSERVICE INSPECTION BOUNDRY DIAGRAM
STANDBY SERVICE WATER SYSTEM (SW)
DWG NO ISI-224-1
REV 0
NO DATE REVISION BY CHKD APPVD
0 1-9-79 ISSUED FOR USE
A 10-15-79 ISSUED FOR INFORMATION ONLY



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

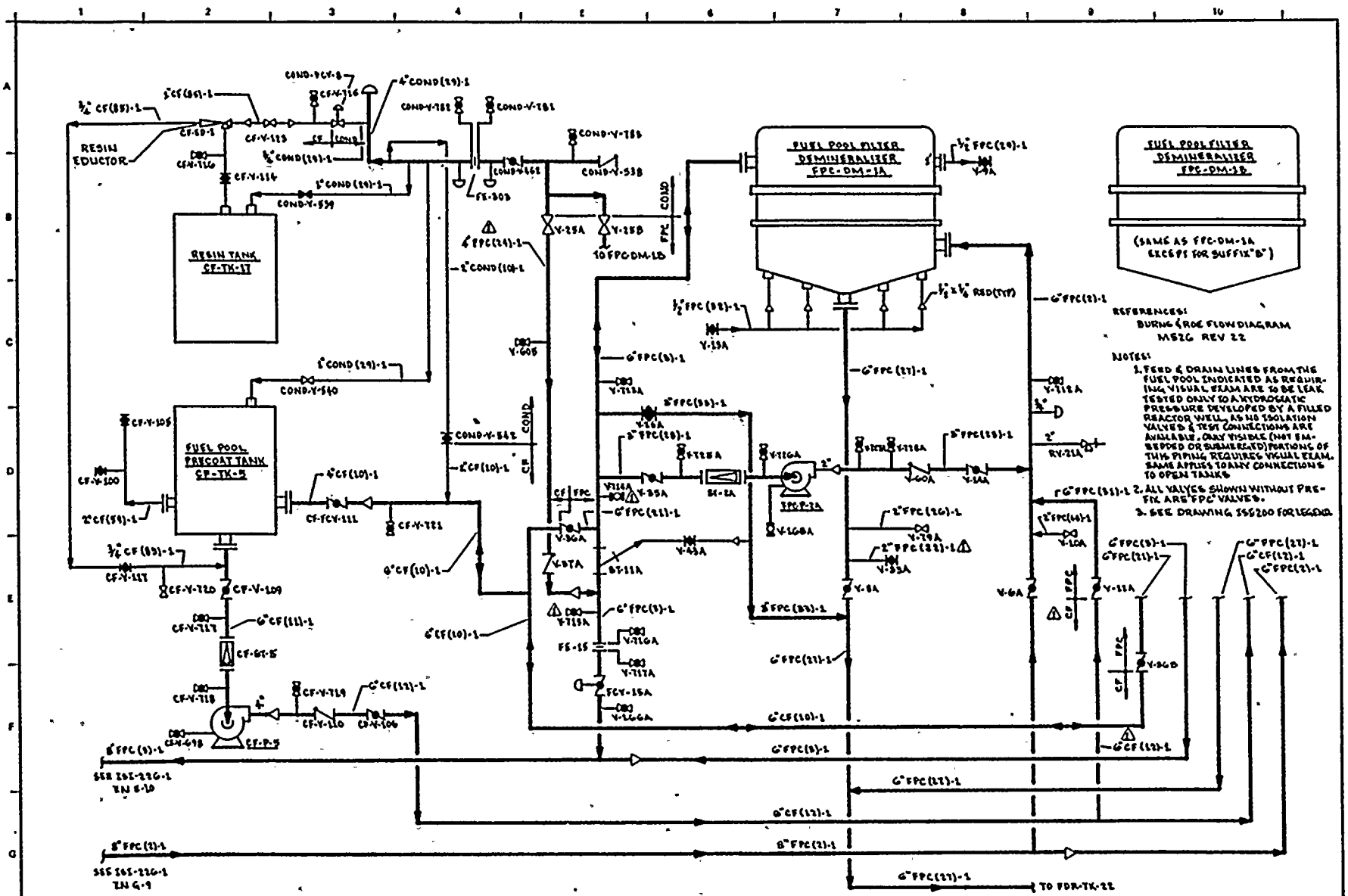
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

NO	DATE	REVISION	BY	CHKD	APPVD
0	3-4-99	ISSUED FOR USE	K.M.L.A	K.P.D.E	R.A.L.J.
A	10-15-99	ISSUED FOR INFORMATION ONLY	K.M.L.	K.P.D.E	DO

ENGINEER D PORTER
DRAWN K.M. ANDREW
DATE 10-10-98

WNP-2
INSERVICE INSPECTION BOUNDRY DIAGRAM
STANDBY SERVICE WATER (SW)

DWG NO SSS-224-2 REV 0



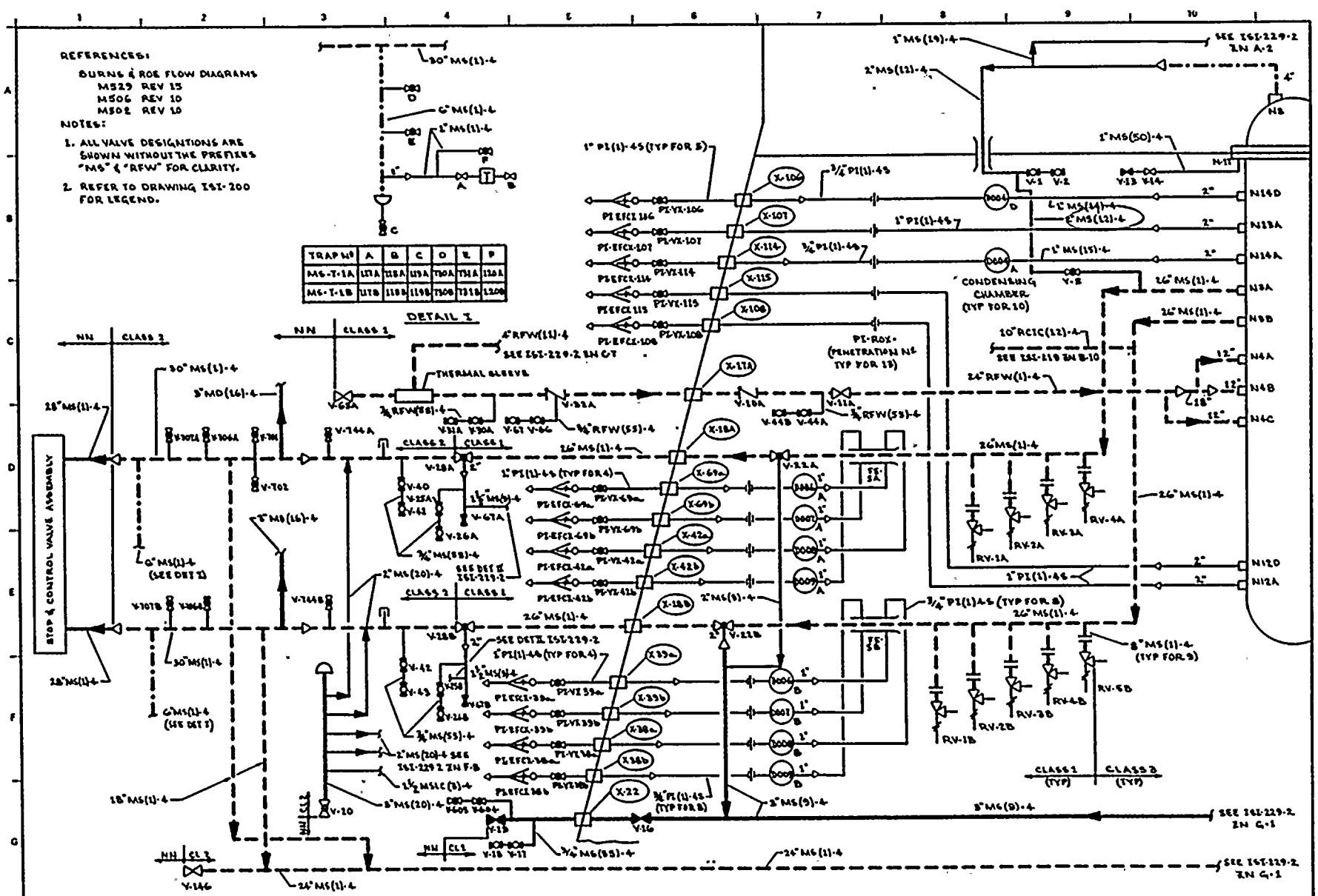
NO	DATE	REVISION	BY	CHKD	APPVD
1	6-25-79	CHANGES PER NRC 8-4, D-5, E-5, E-7 & E-9	KMcA	[illegible]	[illegible]
0	12-1-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	10-25-78	ISSUED FOR INFORMATION ONLY	KMcA	[illegible]	[illegible]

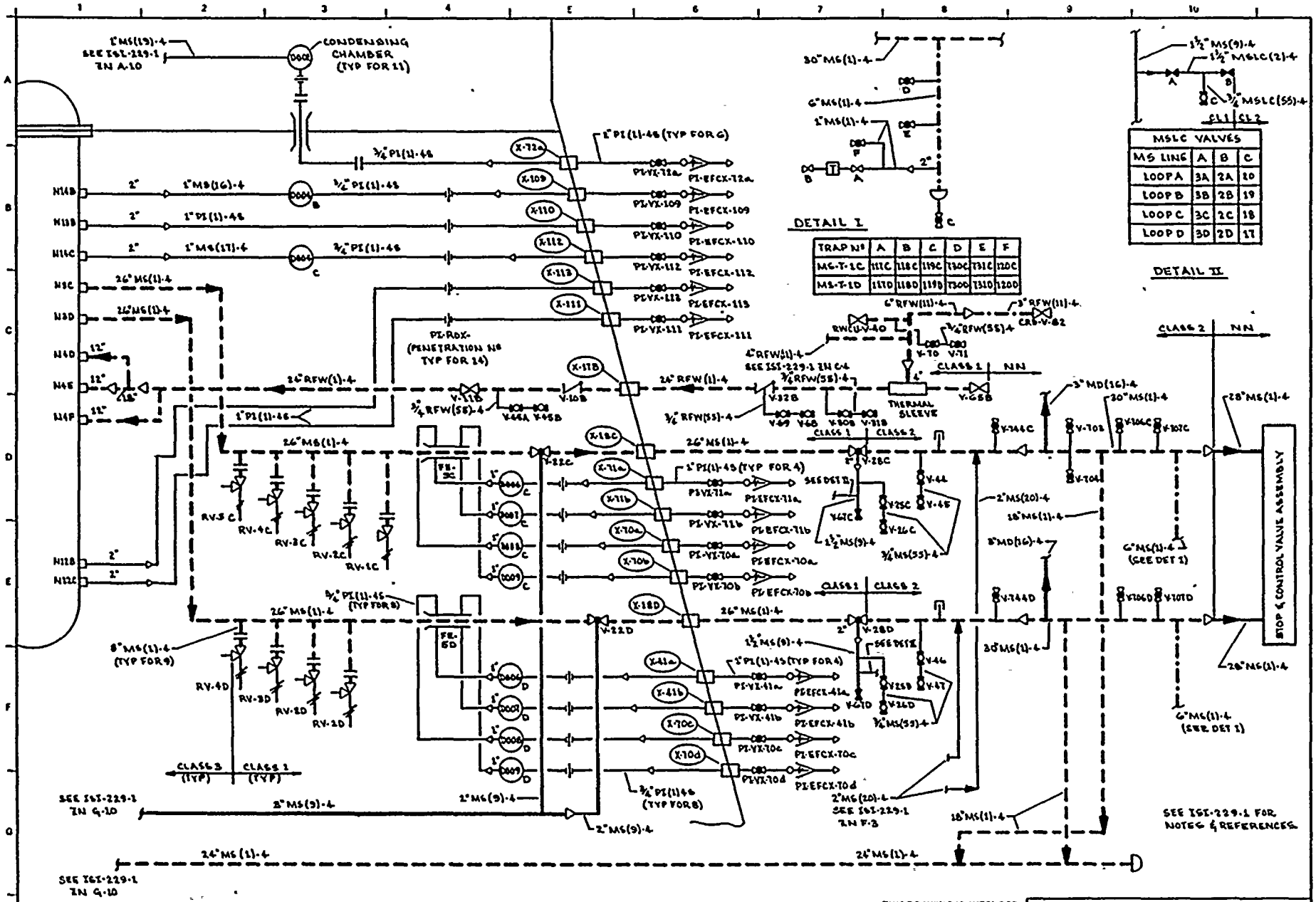
ENGINEER D PORTER
DRAWN K McANDREW
DATE 9-25-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
INSERVICE INSPECTION BOUNDRY DIAGRAM
FUEL POOL COOLING (FPC)

DWG NO 205-220-2 REV 1


REFERENCES:
BURNS & ROE FLOW DIAGRAMS
M529 REV 13
M506 REV 10
M502 REV 10
NOTES:
1. ALL VALVE DESIGNATIONS ARE SHOWN WITHOUT THE PREFIXES "MS" & "RFW" FOR CLARITY.
2. REFER TO DRAWING 1S1-200 FOR LEGEND.
TRAP No | A | B | C | D | E | F
MS-T-1A | 137A | 138A | 139A | 140A | 141A | 142A
MS-T-1B | 137B | 139B | 139B | 140B | 141B | 142B
DETAIL 1
CONDENSING CHAMBER (TYP FOR 10)
THERMAL SLEEVE
STOP & CONTROL VALVE ASSEMBLY
CLASS 1
CLASS 2
SEE 1S1-229-2 ZN A-2
SEE 1S1-229-2 ZN C-1
SEE 1S1-229-2 ZN G-1
SEE 1S1-219 ZN B-10
SEE DET 'E' 1S1-229-2
SEE DET 'F' 1S1-229-2
(TYP FOR 8)
(TYP FOR 9)
(TYP FOR 4)
(TYP)
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352
WNP-2
INSERVICE INSPECTION BOUNDRY DIAGRAM
MAIN STEAM (MS) & REACTOR FEED WATER (RFW)
ENGINEER D PORTER
DRAWN K.M. ANDREW
DATE 2-13-78
DWG NO 1S1-229-1
REV 0
NO | DATE | REVISION | BY | CHKD | APPVD
0 | 10/3/78 | REVISED (4) 3"Ø, 3"Ø MS(19)-4 & 2" MS(12)-4 FROM SURFACE TO FINAL ASMED MSIC SYSTEM & ISSUED FOR USE
A | 4-27-78 | ISSUED FOR INFORMATION ONLY



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

NO	DATE	REVISION	BY	CHKD	APPVD
0	10-22-78	REVISED 1½"-T (5"MS(9)-4 FROM SURFACE TO VISUAL. ADDED MSLC SYSTEM (DETAIL II), & ISSUED FOR USE.	K.M.L.	D.R.	R.T.H. 10/20/78
A	6-21-78	ISSUED FOR INFORMATION ONLY	K.M.L.	D.C.J.	D.R.

ENGINEER D PORTER
DRAWN V.M.L. ANDREW
DATE 2-16-78

WNP-2
INSERVICE INSPECTION BOUNDRY DIAGRAM
MAIN STEAM (MS) & REACTOR FEED WATER (RFW)

DWG NO ISI-229-2 REV 0

WNP-2 ISI BOUNDARY DIAGRAM

Date 1/8/79

Revision 0

EXCEPTIONS AND EXEMPTIONS

ISI - 229

SYSTEM Main Steam (MS) and Reactor Feedwater (RFW) System

EXCEPTIONS:

Class 1 Piping and Components

- See general exceptions.
- No additional exceptions.

Class 2 Piping and Components

- See general exceptions.
- No additional exceptions.

EXEMPTIONS APPLIED:

IWB-1220(a)(1) Yes, per code class boundary.

(2) No

(3) Yes

(4) Yes

*(b)(1) Yes, 2"MS(12)-4, 2" & 3"MS(9)-4, 2" RPV instrument lines.

(2) No

(3) Yes, all piping ≤1" NPS.

IWC-1220(a) No

*(b) No

(c) No

(d) Yes, all piping ≤4" NPS.

IWC-5220(d) No

IWD-5200(c) No

*See general exemption discussion for details.

Date 1/8/79
Revision 0

WNP-2 ISI BOUNDARY DIAGRAM

EXCEPTIONS AND EXEMPTIONS

ISI - 230

SYSTEM Reactor Recirculation System

EXCEPTIONS:

Class 1 Piping and Components

- See general exceptions.
- No additional exceptions.

Class 2 Piping and Components

- See general exceptions.
- No additional exceptions.

EXEMPTIONS APPLIED:

IWB-1220(a)(1) Yes, per code class boundaries.
(2) No
(3) No
(4) No
*(b)(1) 1½ SLC(2)-45, standby liquid control injection
(2) No
(3) Yes, all piping ≤1" NPS.
IWC-1220(a) No
*(b) No
(c) No
(d) No
IWC-5220(d) No
IWD-5200(c) No

* See general exemption discussion for details.

8.0--WELD IDENTIFICATION DIAGRAMS

This section of the WNP-2 PSI Program Plan contains Weld and Component Identification Diagrams for each system subject to preservice inspection. The Weld and Component Identification Diagrams identify each weld and component subject to inspection by illustrating the system in piping isometric format. For piping systems, or portions thereof, which require volumetric and/or surface examination, each weld and component is assigned an ISI identification number unique to that item, and which will be used exclusively for identification of welds and components on data sheets, reports, etc. For certain components, such as for hangers and restraints, the "construction" identification number is also shown for information, in parentheses, and will not be used to reference the component for ISI purposes. For systems requiring only a visual examination for evidence of leakage, no ISI numbers are assigned.

Also shown on each Weld and Component Identification Diagram are such items as platforms, floors, walls, ladders, elevations and azimuths, compartment names, details, penetrations, and various notes, all of which are intended to aid the examination crew in locating and gaining access to the items to be examined, and to note potential access restrictions.

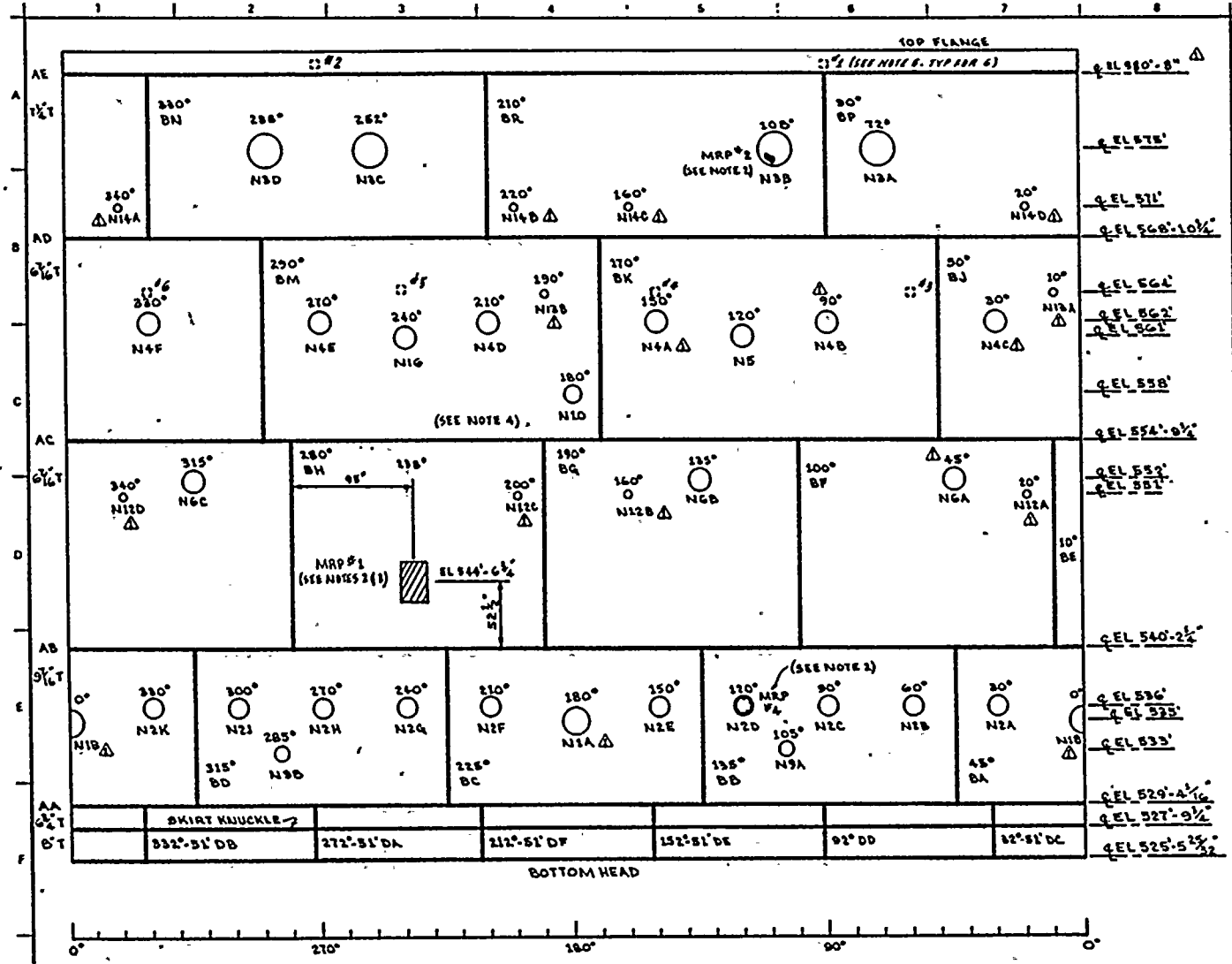
Following each set of Weld and Component Identification Diagrams applicable to a piping system which is subject to volumetric and/or surface examination, is a set of Program Plan and Schedule Tables. Those tables list and describe each weld and component shown on the diagram in order as they appear tracing the line in the direction of flow. They further define the Section XI Category, the examination method and procedures to be used, and the ultrasonic calibration block, if applicable, for each examination item. The Inservice column will not be used for the PSI Program, but will be filled in when planning the first 10 year ISI Program.

The following generic note applies to each Program Plan and Schedule Table and is referenced from the "Remarks" column in the tables when applicable.

NOTE 1: Pipe whip restraints, abbreviated "PWS", are not designed or fabricated in accordance with ASME Section III, Article NF, and are, therefore, not subject to the rules of ASME Section XI. However, a visual examination is performed and documented on a voluntary basis by and at the discretion of the Supply System.

The following system abbreviations are used throughout this section:

COND	Main Condensate
CRD	Control Rod Drive
DW	Demineralized Water
EDR	Equipment Drains, Radioactive
FDR	Floor Drains, Radioactive
FPC	Fuel Pool Cooling
HPCS	High Pressure Core Spray
LPCI	Low Pressure Coolant Injection
LPCS	Low Pressure Core Spray
MS	Main Steam
MSLC	Main Steam Leakage Control
RCC	Reactor Closed Cooling
RFW	Reactor Feedwater
RHR	Residual Heat Removal
RPV	Reactor Pressure Vessel
RRC	Reactor Recirculation
RWCU	Reactor Water Cleanup
SLC	Standby Liquid Control
SSW	Standby Service Water



NOTES:

1. REFER TO PROGRAM PLAN & SCHEDULE TABLES FOR EXAMINATION & CALIBRATION BLOCK REQUIREMENTS.
2. "MRP" INDICATES MAJOR REPAIR AREA. MRP #3 AT N2E NOZZLE TO SAFE END WELD PREP IS NOT SHOWN.
3. MRP #1 IS 2¾" TO 3⅛" IN DEPTH & 16 15" WIDE BY 30" HIGH. NOTE THAT MRP #1 AREA CENTER IS DIMENSIONALLY REFERENCED.
4. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-119.
5. CLADDING PATCH LOCATIONS:
   #1 @ 90° AZ, #2 @ 270° AZ ARE 21" BELOW FLANGE LIP.
   #3 @ 60° AZ, #4 @ 150° AZ, #5 @ 240° AZ, #6 @ 330° AZ ARE 24" ABOVE THE N4 NOZZLES.

REFERENCES:

BURNS & ROE DRAWING M886 REV 1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
REACTOR PRESSURE VESSEL	251	NA	7⅛, 6 5/16, 9⅜	SA 508 GR B	CS	NOTE 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	5.15.79	REVISED NOZZLE LETTERS, PER AS BUILT. ADDED NOTES 4 & 5	K.M.A	[illegible]	[illegible]
0	12-11-78	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	3-17-78	ISSUED FOR INFORMATION ONLY	K.M.A	DJR	DJR

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: K. HANNAH | DRAWN: K.M.c.A. | DATE: 2-23-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR PRESSURE VESSEL ROLL-OUT

DWG NO: RPV-101 | REV 1

WNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 9

INTERVAL.: Baseline SYSTEM OR COMPONENT NO. RPV DATE: 1/8/79

PERIOD: N/A DESCRIPTION: SHELL COURSES & SKIRT KNUCKLE REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	AA	Bottom Head to #1 Shell Course Circ. Weld	B-A	X						UTP-30	UT-118			
RPV-101	AB	#1 to #2 Shell Course Circumferential Weld	B-A	X						UTP-30	UT-120			
RPV-101	AC	#2 to #3 Shell Course Circumferential Weld	B-A	X						UTP-30	UT-120			
RPV-101	AD	#3 to #4 Shell Course Circumferential Weld	B-A	X						UTP-30	UT-120			
RPV-101	AE	#4 Shell to Shell Flange Circumferential Weld	B-A	X						UTP-25	UT-121			
RPV-101	CG	Skirt Knuckle	B-H	X						UTP-34	UT-119			
RPV-101	BA	#1 Shell Vert. Weld @45°	B-A	X						UTP-30	UT-119			
RPV-101	BB	#1 Shell Vert. Weld @135°	B-A	X						UTP-30	UT-119			
RPV-101	BC	#1 Shell Vert. Weld @225°	B-A	X						UTP-30	UT-119			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RPV

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: SHELL COURSES

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	BD	#1 Shell Vert Weld @315°	B-A	X						UTP-30	UT-119			
RPV-101	BE	#2 Shell Vert Weld @10°	B-A	X						UTP-30	UT-120			
RPV-101	BF	#2 Shell Vert Weld @100°	B-A	X						UTP-30	UT-120			
RPV-101	BG	#2 Shell Vert Weld @190°	B-A	X						UTP-30	UT-120			
RPV-101	BH	#2 Shell Vert Weld @280°	B-A	X						UTP-30	UT-120			
RPV-101	BJ	#3 Shell Vert Weld @50°	B-A	X						UTP-30	UT-120			
RPV-101	BK	#3 Shell Vert Weld @ 170°	B-A	X						UTP-30	UT-120			
RPV-101	BM	#3 Shell Vert Weld @290°	B-A	X						UTP-30	UT-120			
RPV-101	BN	#4 Shell Vert Weld @330°	B-A	X						UTP-30	UT-121			
RPV-101	BP	#4 Shell Vert Weld @90°	B-A	X						UTP-30	UT-121			
RPV-101	BR	#4 Shell Vert Weld @210°	B-A	X						UTP-30	UT-121			

INTERVAL: Baseline SYSTEM OR COMPONENT NO. RPV DATE: 1/8/79

PERIOD: N/A DESCRIPTION: NOZZLES - SHELL REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD VOL.	METHOD SUR.	METHOD VT-1	METHOD VT-2	METHOD VT-3	METHOD VT-4	PROCEDURE	CAL. BLOCK	INSERVICE REQUIREMENTS	INSERVICE YEAR OF INTERVAL	REMARKS
RPV-101	N1-0	Recirc. Suction Nozzle to Vessel @0°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N1-180	Recirc. Suction Nozzle to Vessel @180°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-30	Recirc. Return Nozzle to Vessel @30°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-60	Recirc. Return Nozzle to Vessel @60°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-90	Recirc. Return Nozzle to Vessel @90°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-120	Recirc. Return Nozzle to Vessel @120°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-150	Recirc. Return Nozzle to Vessel @150°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-210	Recirc. Return Nozzle to Vessel @210°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			

UNIT- 2

INTERVAL: Baseline

PERIOD: N/A

PROGRAM PLAN AND SCHEDULE

SYSTEM OR COMPONENT NO. RPV

DESCRIPTION: NOZZLES - SHELL

DATE: 7-27-79

REVISION: 1

ING. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	N2-240	Recirc. Return Nozzle to Vessel @240°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-270	Recirc. Return Nozzle to Vessel @270°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-310	Recirc. Return Nozzle to Vessel @310°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N2-330	Recirc. Return Nozzle to Vessel @330°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N3-72	MS Nozzle to Vessel @72°	B-D	X X						UTP-27 UTP-24	UT-121 UT-122			
RPV-101	N3-108	MS Nozzle to Vessel @108°	B-D	X X						UTP-27 UTP-24	UT-121 UT-122			
RPV-101	N3-252	MS Nozzle to Vessel @252°	B-D	X X						UTP-27 UTP-24	UT-121 UT-122			
RPV-101	N3-288	MS Nozzle to Vessel @288°	B-D	X X						UTP-27 UTP-24	UT-121 UT-122			
RPV-101	N4-30	FW Nozzle to Vessel @30°	B-D	X X	 X					UTP-27 UTP-24 PTP-10	UT-120 UT-122			

WRP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 5 of 9

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RPV

DATE: 7-27-79

PERIOD: N/A

DESCRIPTION: NOZZLES - SHELL

REVISION: 1

DRG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	N4-90	FW Nozzle to Vessel @90°	B-D	X X X						UTP-27 UTP-24 PTP-10	UT-120 UT-122			
RPV-101	N4-150°	FW Nozzle to Vessel @150°	B-D	X X X						UTP-27 UTP-24 PTP-10	UT-120 UT-122			
RPV-101	N4-210	FW Nozzle to Vessel @210°	B-D	X X X						UTP-27 UTP-24 PTP-10	UT-120 UT-122			
RPV-101	N4-270	FW Nozzle to Vessel @270°	B-D	X X X						UTP-27 UTP-24 PTP-10	UT-120 UT-122			
RPV-101	N4-330	FW Nozzle to Vessel @330°	B-D	X X X						UTP-27 UTP-24 PTP-10	UT-120 UT-122			
RPV-101	N5-120	LPCS Nozzle to Vessel @120°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N6-45	LPCI Nozzle to Vessel @45°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N6-135	LPCI Nozzle to Vessel @135°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N6-315	LPCI Nozzle to Vessel @315°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RPV

DATE: 7-27-79

PERIOD: N/A

DESCRIPTION: NOZZLES-SHELL

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	N9-105	J. P. Inst. Nozzle to Vessel @105°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			
RPV-101	N9-285	J. P. Inst. Nozzle to Vessel @285°	B-D	X X						UTP-27 UTP-24	UT-119 UT-122			

VIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 6 of 9

INTERVAL: Baseline 1 SYSTEM OR COMPONENT NO. RPV DATE: 7/27/79

PERIOD: N/A DESCRIPTION: NOZZLES - SHELL REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	N10-180	CRD Nozzle to Vessel @180° (capped)	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	5CRD(NZ)-1	CRD Nozzel-to Safe-End	B-J	X	X		X			UTP-1 PTP-1 QCS&I-002	UT-110			
RPV-101	3CRD(NZ)-1	CRD Safe-End to Cap	B-J		X		X			PTP-1 QCS&I-002				
RPV-101	N16-240	HPCS Nozzle to Vessel @240°	B-D	X X						UTP-27 UTP-24	UT-120 UT-122			
RPV-101	N12	Vessel Instrument Penetration (4 ea)	B-E				X			QCS&I-002				
RPV-101	N13	Vessel Instrument Penetration (2 ea)	B-E				X			QCS&I-002				
RPV-101	N14	Vessel Instrument Penetration (4 ea)	B-E				X			QCS&I-002				
N/A	N17	Flange Seal Leakage Pen.	B-E				X			QCS&I-002				

NRP- 2 PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline SYSTEM OR COMPONENT NO. RPV DATE: 7-27-79

PERIOD: N/A DESCRIPTION: MAJOR REPAIR AREAS REVISION: 1

EXAM. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	MRP-1	Major Repair Area 15" X 30" in #2 Shell @ Approx 238° Elevation 545'	B-A	X						UTP-30	UT-120			
RPV-101	MRP-2	Major Repair Area in Nozzle N3-100 (HS) Nozzle Forging Located @180° (Approx), 15½ X 2 X 23/32	B-A							(See Remark)				This Area Examined During N3-100 Nozzle to Shell Weld Exam.
RPV-101	MRP-3	Major Repair Area in Nozzle N2-150, (Recirc), 3 X 3/4 X 11/16 ID Repair Adjacent to Nozzle to Safe-End Weld	N/A							(See Remark)				No Examination Required; Repair not in Beltline Region

NMP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of 9

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. RPV | DATE: 7-27-79

PERIOD: N/A | DESCRIPTION: MAJOR REPAIR AREA, STUDS, NUTS, ETC. | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-101	NRP-4	Major Repair Area in Nozzle N2-120 (Recirc), 26" ID X 49"OD Area	B-A	X						(See Remark)				This Area Examined During N2-120° Nozzle to Shell Weld Exam. Only Repair Area in Upper 180° Section Considered in Proximity of Core Area.
N/A	RPV Studs	RPV Studs (76 ea):												
		1) In Place	B-G-1	X						UTP-32	UT-130			
		2) Removed	B-G-1	X						UTP-32	UT-130			
					X					PTP-1				
N/A	RPV Nuts	RPV Nuts (76 ea)	B-G-1	X						UTP-32	UT-132			
					X					PTP-1				
N/A	RPV Washers	RPV Washers (76 ea)	B-G-1			X				QCS&I-002				
N/A	Bushing	RPV Bushing (1 only)	B-G-1			X				QCS&I-002				
N/A	Ligaments	RPV Flange Ligaments (76 ea)		X						UTP-28	UT-119			
N/A	Cladding	Vessel Shell Internal Clad Surfaces	B-I-1			X				QCS&I-002				
N/A	RPV Interior	Reactor Vessel Interior	B-N-1			X				QCS&I-002				

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
N/A	RPV Component Supports	Integrally Welded Component Support Structures and Interior Attachments to RPV	B-N-2			X				QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 3

INTERVAL.: Baseline | SYSTEM OR COMPONENT NO. RPV | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: TOP & BOTTOM HEAD | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-102	DA	Bottom Head Merid. Weld @272°	B-A	X						UTP-30	UT-118			
RPV-102	DB	Bottom Head Merid. Weld @332°	B-A	X						UTP-30	UT-118			
RPV-102	DC	Bottom Head Merid. Weld @32°	B-A	X						UTP-30	UT-118			
RPV-102	DD	Bottom Head Merid. Weld @92°	B-A	X						UTP-30	UT-118			
RPV-102	DE	Bottom Head Merid. Weld @152°	B-A	X						UTP-30	UT-118			
RPV-102	DF	Bottom Head Merid. Weld @212°	B-A	X						UTP-30	UT-118			
RPV-102	AJ	Bottom Head Dollar Plate Circ. Weld	B-A	X						UTP-30	UT-117 UT-118			8" thk. to 6 3/4 thk.
RPV-102	DG	Bottom Head Dollar Weld, 270° side	B-A	X						UTP-30	UT-117			
RPV-102	DR	Bottom Head Dollar Weld, 90° side	B-A	X						UTP-30	UT-117			
RPV-102	AG	Top Head to Flange Weld	B-A	X						UTP-25	UT-116			
RPV-102	AH	Top Head Dollar Plate Circ. Weld	B-A	X						UTP-30	UT-115 UT-116			5 1/8" thk. to 3 5/8" thk.

D

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 3

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. RPV | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: TOP AND BOTTOM HEAD | REVISION: 0

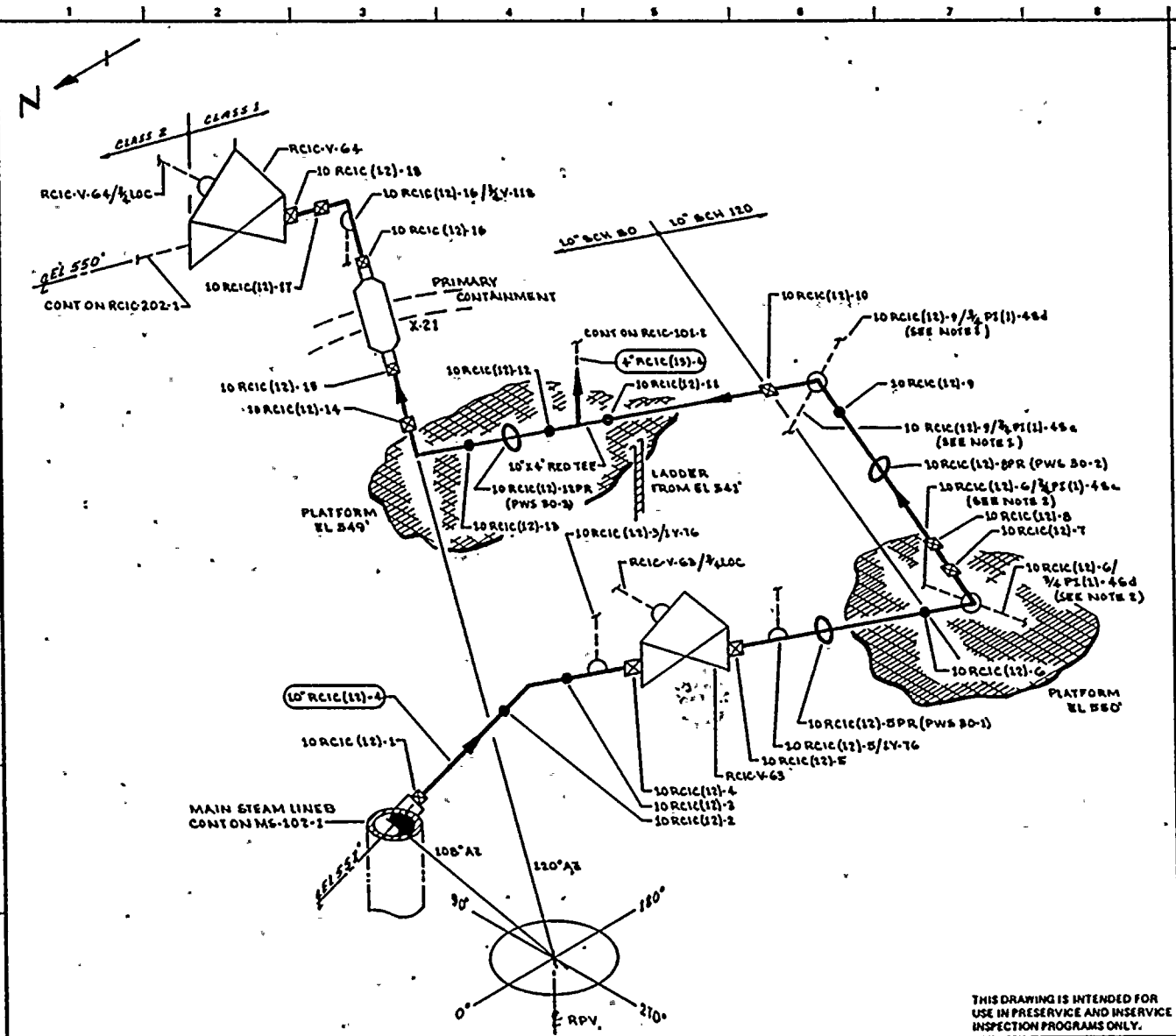
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-102	DH	Top Head Merid. Weld @15°	B-A	X						UTP-30	UT-116			
RPV-102	DJ	Top Head Merid. Weld @75°	B-A	X						UTP-30	UT-116			
RPV-102	DK	Top Head Merid. Weld @135°	B-A	X						UTP-30	UT-116			
RPV-102	DM	Top Head Merid. Weld @195°	B-A	X						UTP-30	UT-116			
RPV-102	DN	Top Head Merid. Weld @255°	B-A	X						UTP-30	UT-116			
RPV-102	DP	Top Head Merid. Weld @315°	B-A	X						UTP-30	UT-116			

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 3

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. RPV | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: TOP & BOTTOM HEAD NOZZLES | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RPV-102	N7	Head Spray Nozzle to Head Top	B-D	X X						UTP-27 UTP-24	UT-115 UT-122			
RPV-102	N-8	Head Vent Nozzle to Top Head	B-D	X X						UTP-27 UTP-24	UT-115 UT-122			
RPV-102	N-18	Spare Nozzle to Top Head	B-E	X X						UTP-27 UTP-24	UT-115 UT-122			
RPV-102	6 SPARE 1	Spare Nozzle to Flange	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-107			
RPV-102	N-11	Vessel Inst. & SLC Bottom Head Penetration	B-E				X			QCS&I-002				
RPV-102	N-15	Vessel Drain Bottom Head Penetration	B-E				X			QCS&I-002				
N/A	CRD	Control Rod Drive Bottom Head Penetrations (185 ea)	B-E				X			QCS&I-002				
N/A	INCORE	Incore Instruments Bottom Head Pen. (55 ea)	B-E				X			QCS&I-002				



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-7 L & d) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-38 c & d) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-663-1.2 REV 6
RCIC-663-3.3 REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
10" RCIC(12)-4	10	80	0.594	SA 106 GR B	CS	UT-22
10" RCIC(12)-4	10	120	0.844	SA 106 GR B	CS	UT-23

NO	DATE	REVISION	BY	CHKD	APPVD
1	2-5-79	CHANGED 10 RCIC(12)-14 FROM SHOP TO FIELD WELD			
0	11-22-78	ISSUED FOR USE			
A	9-15-78	ISSUED FOR INFORMATION ONLY			

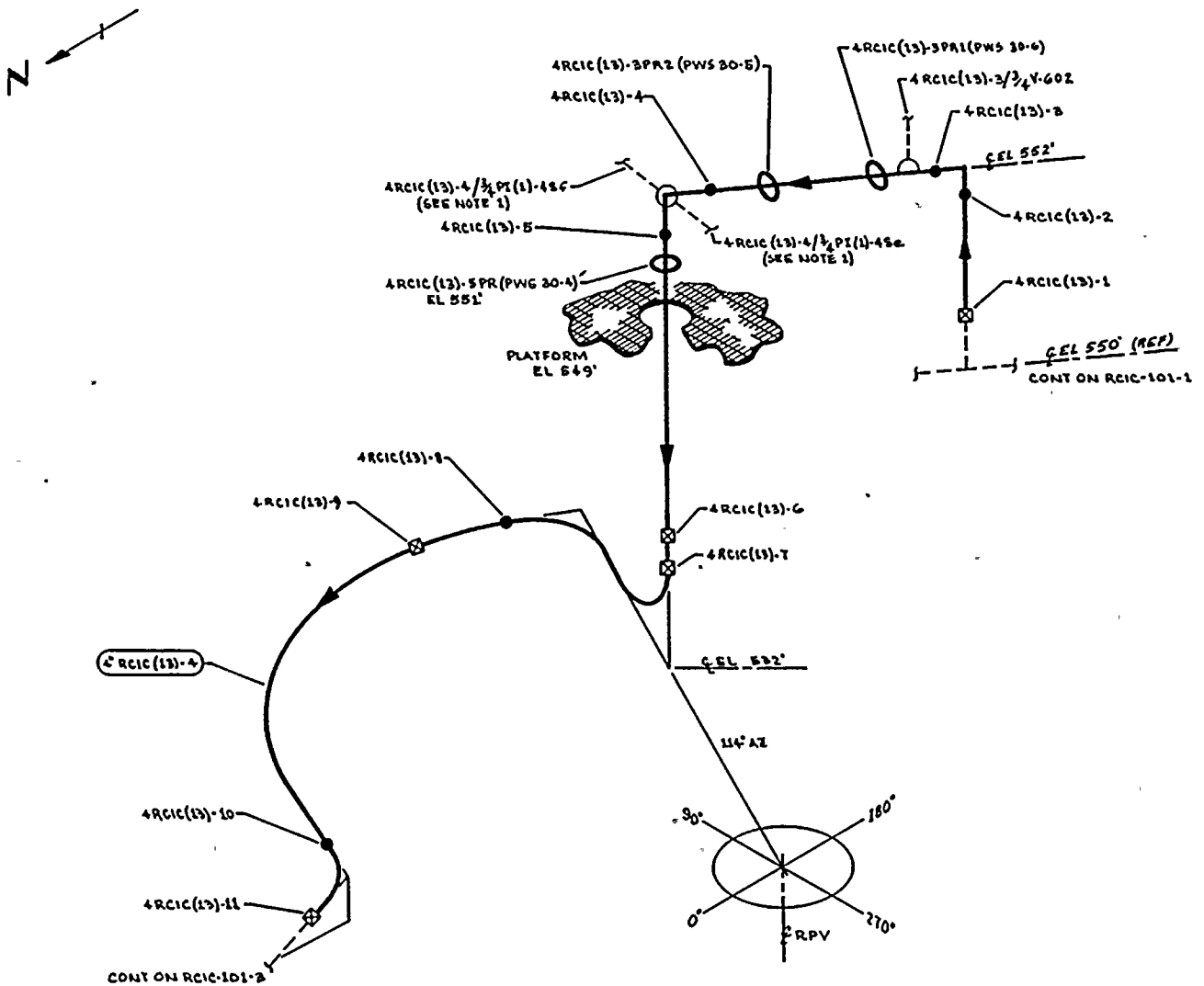
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D PORTER | DRAWN: | DATE: 11-4-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RCIC STEAM SUPPLY

DWG NO: RCIC-101-2 | REV 1



NOTES

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-71 & 66) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RCIC-GG3-1.2	REV 6
RCIC-GG2-1	REV 6
RCIC-GG2-2.4	REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4" RCIC(13)-4	4	80	0.337	SA 106 GR B	CS	UT-30

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-7-78	ISSUED FOR USE			
A	3-15-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: | DATE: 11-7-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RCIC STEAM SUPPLY

DWG NO: RCIC-101-2 | REV 0

IWP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 1 of 8

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RCIC(12)-4, RCIC(13)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RCIC STEAM SUPPLY

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-101	10 RCIC(12)-1	SWL TO PIPE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-2	PIPE TO EL	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-3	EL TO PIPE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-3/ 1 V-76	BI-PASS CONN	B-P				X			QCS&I-002				
RCIC-101	10 RCIC(12)-4	PIPE TO VLV	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	RCIC-V-63	VALVE BODY	B-M-2					X		QCS&I-002				
RCIC-101	RCIC-V-63	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-101	RCIC-V-63/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RCIC-101	10RCIC(12)-5	VLV TO PIPE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-5/ 1-V-76	BI-PASS CONN	B-P				X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 8

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RCIC(12)-4, RCIC(13)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RCIC STEAM SUPPLY | REVISION: 0

CHG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-101	10 RCIC(12)-5PR	PWS	B-K-2											NOTE 1
RCIC-101	10 RCIC(12)-6	PIPE TO EL	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-6/ 3/4 PI(1)-4SC	PRESSURE TAP	B-P				X			QCS&I-002				
RCIC-101	10 RCIC(12)-6/ 3/4 PI(1)-4Sd	PRESSURE TAP	B-P				X			QCS&I-002				
RCIC-101	10 RCIC(12)-7	EL TO PIPE	B-J	X						UTP-10	UT-23			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-7PR	PWS	B-K-2											NOTE 1
RCIC-101	10 RCIC(12)-8	PIPE TO PIPE	B-J	X						UTP-10	UT-23			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-9	PIPE TO EL	B-J	X						UTP-10 ;	UT-23			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-9/ 3/4 PI(1)-4SC	PRESSURE TAP	B-P				X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 8

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RCIC(12)-4, RCIC(13)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RCIC STEAM SUPPLY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-101	10 RCIC(12)-9/ 3/4 PI(1)-4Sd	PRESSURE TAP	B-P				X			QCS&I-002				
RCIC-101	10 RCIC(12)-10	EL TO PIPE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-11	PIPE TO TEE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-12	TEE TO PIPE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-12PR	PWS	B-K-2											NOTE 1
RCIC-101	10 RCIC(12)-13	PIPE TO EL	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-14	EL TO PIPE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-15	PIPE TO PEN	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 8

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RCIC(12)-4, RCIC(13)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RCIC STEAM SUPPLY REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-101	10 RCIC(12)-16	PEN TO EL	B-J	X						UTP-10	UT-22			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-16 3/4 V-118	TEST CONN	B-P				X			QCS&I-002				
RCIC-101	10 RCIC(12)-17	EL TO PIPE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	10 RCIC(12)-18	EL TO VLV	B-J	X						UTP-10	UT-22			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	RCIC-V-64	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
RCIC-101	RCIC-V-64	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-101	RCIC-V-64/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RCIC-101	4 RCIC(13)-1	TEE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-2	PIPE TO EL	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				

VHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RCIC(12)-4, RCIC(13)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RCIC STEAM SUPPLY

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-101	4 RCIC(13)-3	EL TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-3/ 3/4 V-602	TEST CONN	B-P				X			QCS&I-002				
RCIC-101	4 RCIC(13)- 3PR-1	PHS	B-K-2											NOTE 1
RCIC-101	4 RCIC(13)- 3PR-2	PHS	B-K-2											NOTE 1
RCIC-101	4 RCIC(13)-4	PIPE TO EL	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-4/ 3/4 PI(1)-4Se	PRESSURE TAP	B-P				X			QCS&I-002				
RCIC-101	4 RCIC(13)-4/ 3/4 PI(1)-4Sf	PRESSURE TAP	B-P				X			QCS&I-002				
RCIC-101	4 RCIC(13)-4PR	PHS	B-K-2											NOTE 1
RCIC-101	4 RCIC(13)-5	EL TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 8

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RCIC(12)-4, RCIC(13)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RCIC STEAM SUPPLY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-101	4 RCIC(13)-6	PIPE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-7	PIPE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-8	PIPE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-9	PIPE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-10	PIPE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-11	PIPE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-12	PIPE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-12/ 3/4 PI(1)-4Se	PRESSURE TAP	B-P				X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 7 of 8

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RCIC(12)-4, RCIC(13)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RCIC STEAM SUPPLY REVISION: 0

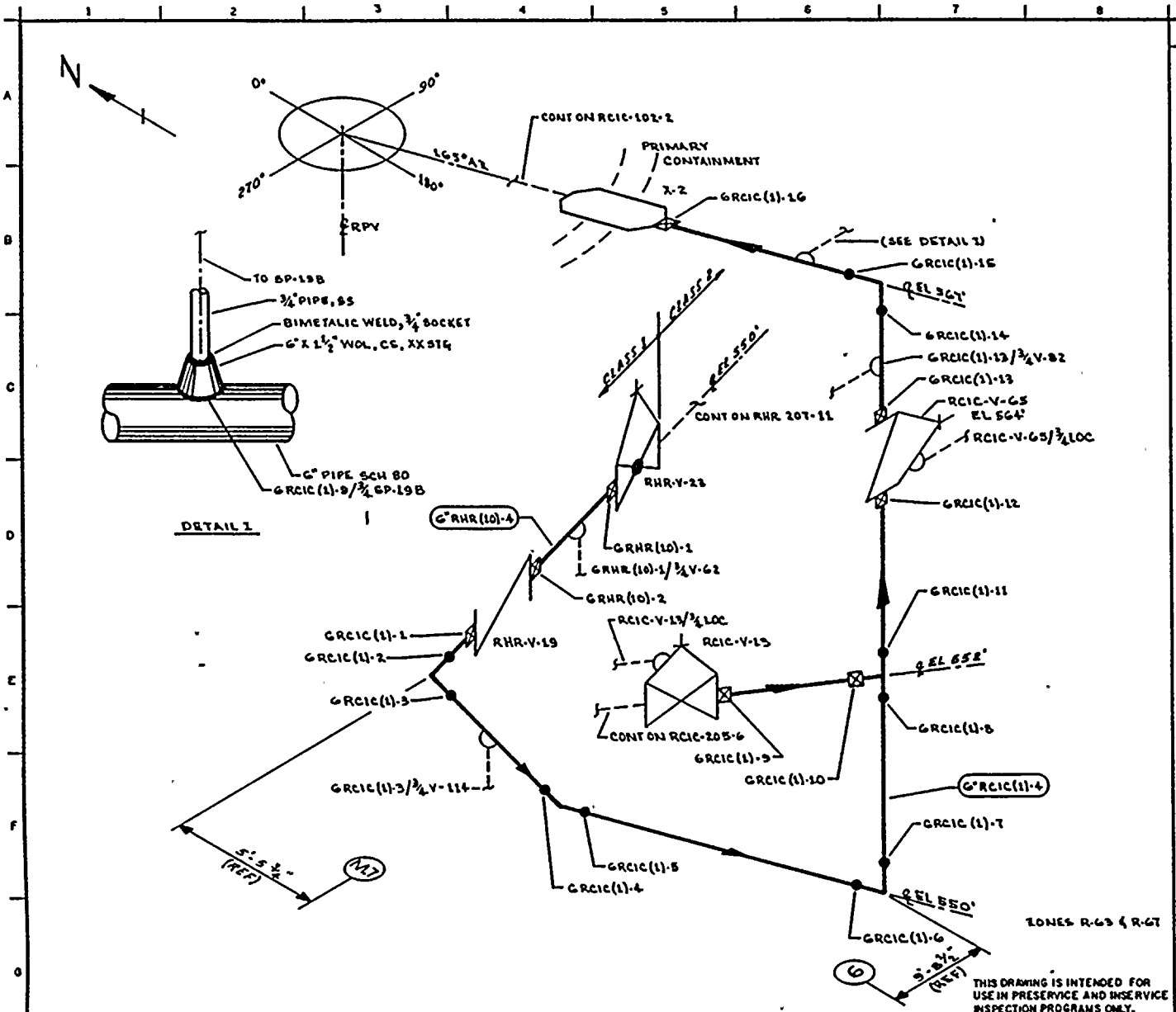
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-101	4 RCIC(13)-12/ 3/4 PI(1)-4Sf	PRESSURE TAP	B-P				X			QCS&I-002				
RCIC-101	4 RCIC(13)-13	PIPE TO PEN	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-14	PEN TO EL	B-J	X						UTP-10	UT-30			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-15	EL TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-16	PIPE TO EL	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-17	EL TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RCIC-101	4 RCIC(13)-17/ 3/4 V-37	TEST CONN	B-P				X			QCS&I-002				
RCIC-101	4 RCIC(13)-18	PIPE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 8 of 8

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RCIC(12)-4, RCIC(13)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RCIC STEAM SUPPLY REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-101	4 RCIC(13)-19	PIPE TO VLV	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			
RCIC-101	RCIC-V-8	VALVE BODY	B-M-2					X		QCS&I-002				
RCIC-101	RCIC-V-8	VALVE BOLTING	B-G-2			X				QCS&I-002				
RCIC-101	RCIC-V-8/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				



NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-748-1	REV 2
RCIC-GBB-22.23	REV 3
RCIC-GSB-24	REV 5
RCIC-GSB-25	REV 4

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RHR(10)-4	6	80	0.432	SA 106 GR B	CS	UT-28
6"RCIC(1)-4	6	80	0.432	SA 106 GR B	CS	UT-28

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED	K.M.A	[illegible]	[illegible]
0	11 27 78	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	5-19-78	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: K.M.A | DATE: 4-26-78

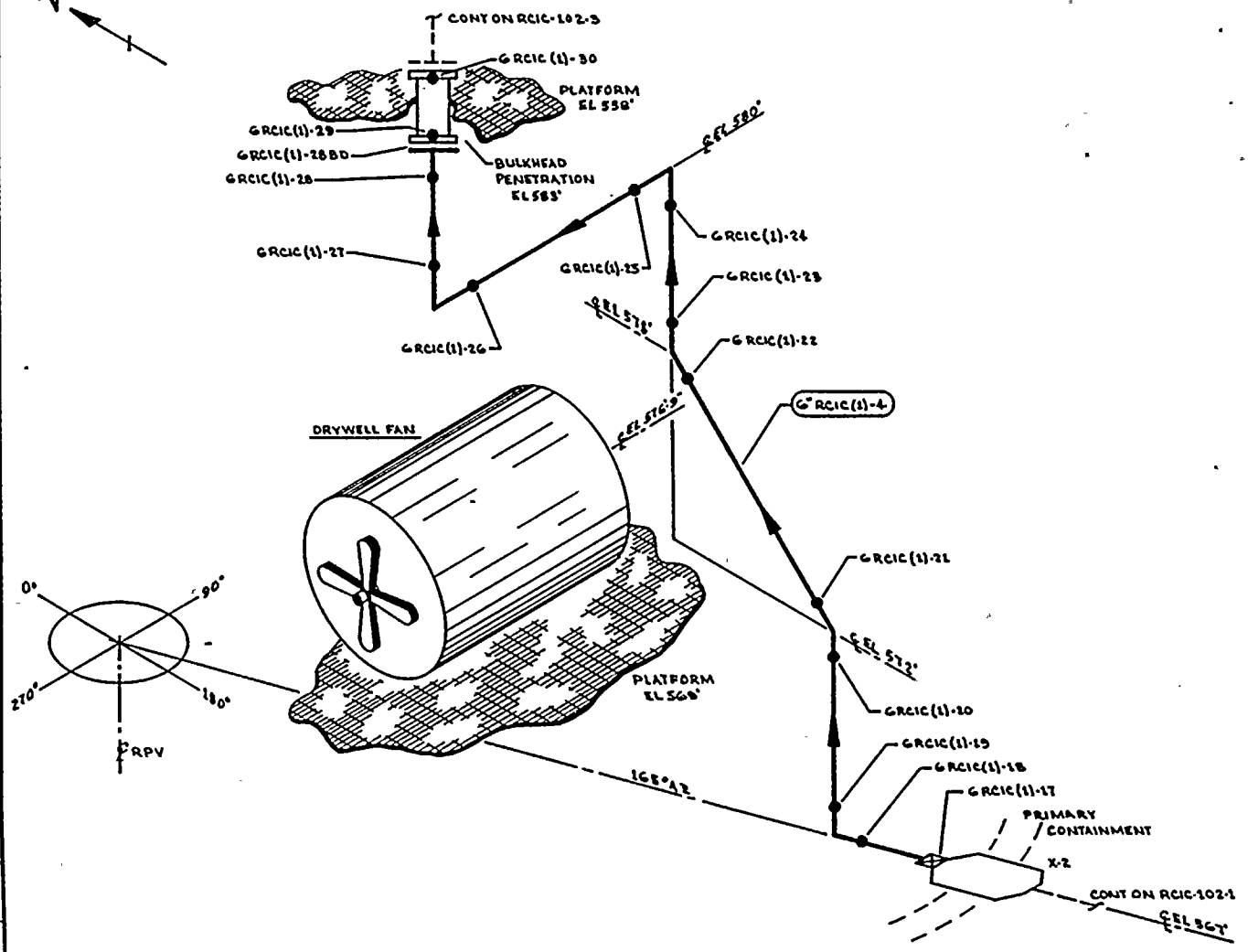
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RESIDUAL HEAT REMOVAL/ REACTOR CORE ISOLATION COOLANT HEAD SPRAY

DWG NO: RCIC-102-1 | REV 1



NOTES:

1. ACCESS TO WELDS GRCIC(1)-22 THRU GRCIC(1)-27 REQUIRES TEMPORARY SCAFFOLDING.

REFERENCES:

BOVEE & CRAIL ISOMETRIC RCIC-G59-26 REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RCIC (1)-4	6	80	0.432	SA 106 GR B	C6	UT-28

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED	KMcA	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KMcA	[illegible]	[illegible]
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMcA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1

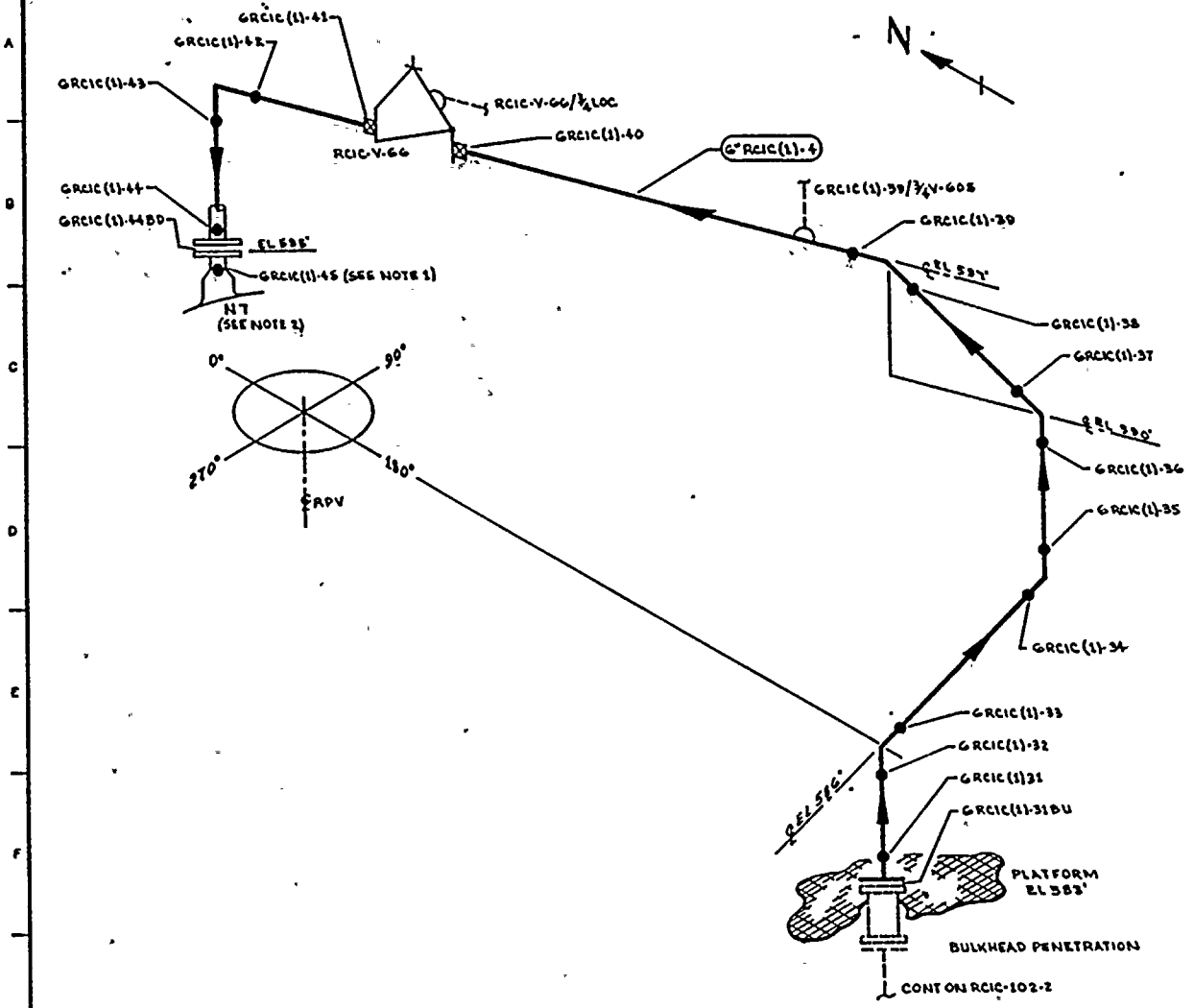
ENGR: D PORTER | DRAWN: K. McA. | DATE: 4-25-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RESIDUAL HEAT REMOVAL / REACTOR CORE ISOLATION COOLANT HEAD SPRAY

DWG NO: RCIC-102-2 | REV 1



NOTES:

1. WELD GRCIC(1)-45 UTILIZES CAL BLOCK UT-107.
2. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-111.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RCIC-659-27-28 REV 4

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6" RCIC(1)-4	6	80	0.432	SA 106 GR B	CS	UT-28

NO	DATE	REVISION	BY	CHKD	APPVD
2	8-30-79	ADDED NOTE 2.	KM&A		
1	1-10-79	CAL BLOCK REFERENCE CHANGED	KM&A		
0	11-28-78	ISSUED FOR USE	KM&A		
A	5-19-78	ISSUED FOR INFORMATION ONLY	KM&A		

QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D PORTER | DRAWN: K.M.&A. | DATE: 4-26-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RESIDUAL HEAT REMOVAL/
REACTOR CORE ISOLATION COOLANT HEAD SPRAY

DWG NO: RCIC-102-3 | REV 2

HNP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 1 of 9

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RIIR(10)-4, RCIC(1)-4

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: RPV HEAD SPRAY

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	RIIR-V-23	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
RCIC-102	RIIR-V-23	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	6 RIIR(10)-1	VLV TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RIIR(10-1/ 3/4 V-62	TEST CONN	B-P				X			QCS&I-002				
RCIC-102	6 RIIR(10)-2	PIPE TO VLV	B-J	X						UTP-10	UT-28			FITTING TO FITTING < 6"
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	RIIR-V-19	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
RCIC-102	RIIR-V-19	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	6 RCIC(1)-1	VALVE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline / ___

SYSTEM OR COMPONENT NO. RCIC(1)-4

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: RPV HEAD SPRAY

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-3/ 3/4 V-114	TEST CONN	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-4	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-5	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-6	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-7	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-8	PIPE TO TEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 9

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. RCIC(1)-4 | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: RPV HEAD SPRAY | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	RCIC-V-13	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-13	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-13/ 3/4 LOC	STEM LEAK OFF	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-9	VLV TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-10	PIPE TO TEE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-11	TEE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-12	PIPE TO VLV	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	RCIC-V-65	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-65	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				

UNIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline /

SYSTEM OR COMPONENT NO. RCIC(1)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RPV HEAD SPRAY

REVISION: 1

FIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	RCIC-V-65/ 3/4 LOC	STEM LEAK OFF	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-13	VLV TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-13/ 3/4 V-82	TEST CONN	B-P				X							
RCIC-102	6 RCIC(1)-14	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-15	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-9/ 3/4 SP19B	PIPE TO WOL	B-J		X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-16	PIPE TO PEN	B-J	X						UPT-10	UT-28			PEN. X-2
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-17	PEN TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

VNP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 5 of 9

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RCIC(1)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RPV HEAD SPRAY

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-18	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-19	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-20	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-21	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-22	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-23	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-24	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-25	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 9

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. RCIC(1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RPV HEAD SPRAY | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-26	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-27	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-28	PIPE TO FLNG	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-28 BD	FLNG BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	6 RCIC(1)-29	FLNG TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-30	PIPE TO FLANGE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-31BU	FLNG BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	6 RCIC(1)-31	FLNG TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 9

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. RCIC(1)-4 | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: RPV HEAD SPRAY | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-32	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-33	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-34	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-35	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-36	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-37	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-38	PIPE TO EL	B-J	X	X		X			UPT-10 PTP-1 QCS&I-002	UT-28			
RCIC-102	6 RCIC(1)-39	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			

WNP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RCIC(1)-4

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: RPV HEAD SPRAY

REVISION: 1

IMG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-39 3/4V-605	VENT CONN	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-40	PIPE TO VLV	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	RCIC-V-66	VALVE BODY	B-M-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-66	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
RCIC-102	RCIC-V-66/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RCIC-102	6 RCIC(1)-41	VLV TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-42	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-43	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 9 of 9

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. RCIC(1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RPV HEAD SPRAY | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCIC-102	6 RCIC(1)-44	PIPE TO FLNG	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCIC-102	6 RCIC(1)-44 BD	FLNG BOLTING	B-G-2				X			QCS&I-002				12-1 1/8", W/BOLTS
RCIC-102	6 RCIC(1)-45	FLNG TO NOZZLE (RPV)	B-J	X						UTP-10	UT-107			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. HPCS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: HIGH PRESSURE CORE SPRAY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HPCS-101	HPCS-V-5	VALVE BODY	B-M-2					X		QCS&I-002				
HPCS-101	HPCS-V-5	VALVE BOLTING	B-G-2			X				QCS&I-002				
HPCS-101	HPCS-V-5/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
HPCS-101	HPCS-V-5/ 3/4 V-61	DRAIN CONN	B-P				X			QCS&I-002				
HPCS-101	12HPCS(1)-1	VALVE TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-1/ 3/4 V-22	TEST CONN	B-P				X			QCS&I-002				
HPCS-101	12HPCS(1)-2	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-3	EL TO PEN	B-J	X						UTP-10	UT-17			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-4	PEN TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-5	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 2 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. HPCS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: HIGH PRESSURE CORE SPRAY REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HPCS-101	12HPCS(1)-5LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
HPCS-101	12HPCS(1)-5LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QSC&I-002	UT-16			
HPCS-101	12HPCS(1)-6LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
HPCS-101	12HPCS(1)-6LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
HPCS-101	12HPCS(1)-6	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
HPCS-101	12HPCS(1)-7	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
HPCS-101	12HPCS(1)-8	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
HPCS-101	12HPCS(1)-9	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. HPCS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: HIGH PRESSURE CORE SPRAY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HPCS-101	12HPCS(1)-10	EL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-11	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-12	EL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-13	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-14	EL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-14/ 4HPCS(1)-4	WOL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	4HPCS(1)-1BU	FLANGE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
HPCS-101	4HPCS(1)-1	FLNG TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. HPCS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: HIGH PRESSURE CORE SPRAY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HPCS-101	4HPCS(1)-2	PIPE TO HOL	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-15	PIPE TO VLV	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	HPCS-V-5	VALVE BODY	B-M-2				X			QCS&I-002				
								X		QCS&I-002				
									X	QCS&I-002				
HPCS-101	HPCS-V-5	VALVE BOLTING	B-G-2			X				QCS&I-002				
HPCS-101	HPCS-V-5/ 3/4 LOC	STEAM LEAKOFF	B-P				X			QCS&I-002				
HPCS-101	12HPCS(1)-16	VLV TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-16/ 3/4 V-38	TEST CONN	B-P				X			QCS&I-002				
HPCS-101	12HPCS(1)-17	PIPE TO VLV	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	HPCS-V-51	VALVE BODY	B-M-2					X		QCS&I-002				
HPCS-101	HPCS-V-51	VALVE BOLTING	B-G-2				X			QCS&I-002				

WNP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. HPCS(1)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: HIGH PRESSURE CORE SPRAY

REVISION: 1

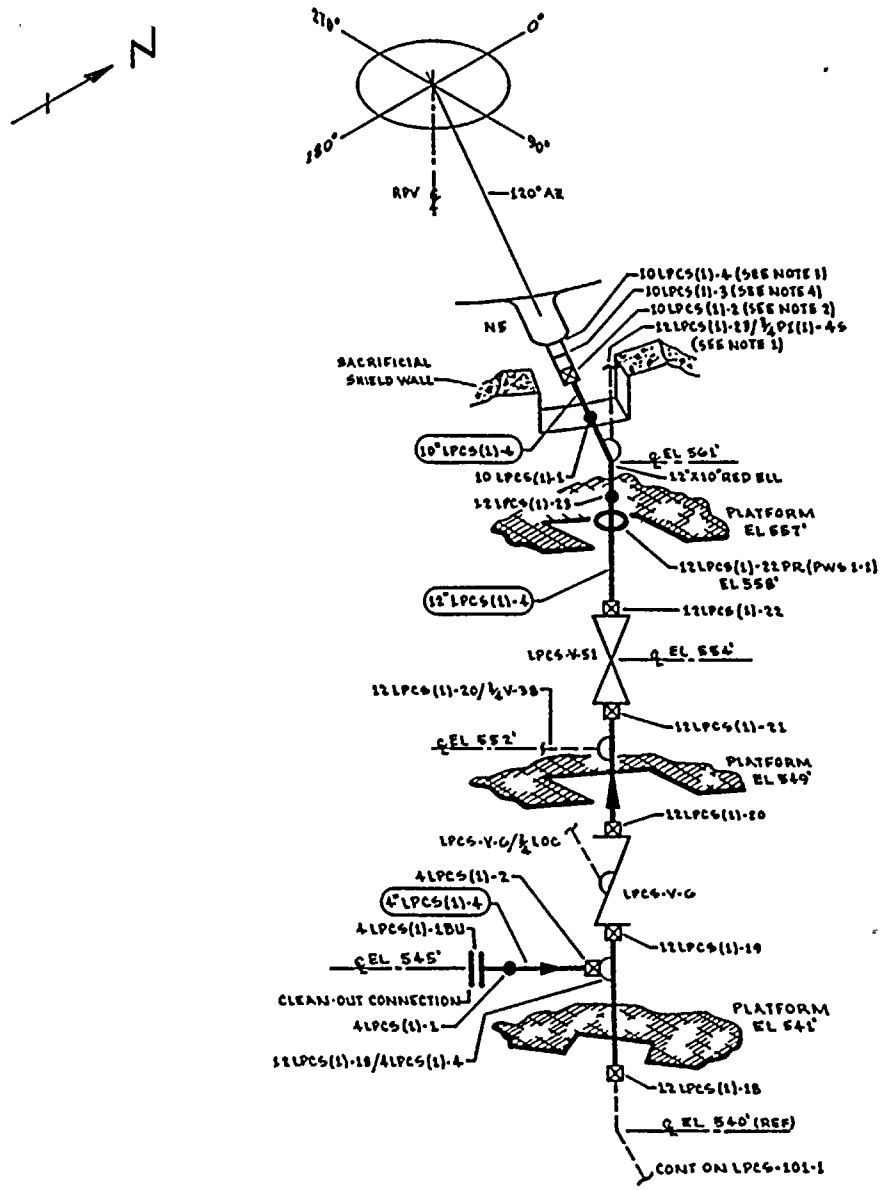
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HPCS-101	12HPCS(1)-18	VLV TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-18PR	PWS	B-K-2											NOTE 1
HPCS-101	12HPCS(1)-19	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
HPCS-101	12HPCS(1)-19/ 3/4 PI(1)-45	PRESSURE TAP	B-P				X			QCS&I-002				
HPCS-101	10HPCS(1)-1	EL TO PIPE	B-J	X						UTP-10	UT-22			
					X					PTP-1				
							X			QCS&I-002				

IWP- 2 PROGRAM PLAN AND SCHEDULE PAGE 6 of 6

INTERVAL.: BASELINE SYSTEM OR COMPONENT NO. HPCS(1)-4 DATE: 1/8/79

PERIOD: HA DESCRIPTION: HIGH PRESSURE CORE SPRAY REVISION: 0

IWIG: NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HPCS-101	10HPCS(1)-2	PIPE TO SE EXT.	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-22			SEE RPV-105, NOZZLE N16
HPCS-101	10HPCS(1)-3	S.E. EXT. TO S.E.	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-106			SEE RPV-105, NOZZLE N16
HPCS-101	10HPCS(1)-4	S.E. TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			SEE RPV-105, NOZZLE N16



NOTES:

1. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-78b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
2. DISTANCE BETWEEN WELDS 10 LPCS(1)-2 & 10 LPCS(1)-3 IS LESS THAN 6".
3. DISSIMILAR METAL WELD, CS TO INCO, USE CAL BLOCK UT-102.
4. DISSIMILAR METAL WELD, INCO TO CS, USE CAL BLOCK UT-106.

REFERENCES:

BOYER & CRAIL ISOMETRICS

LPCS-750-22.24 REV 2
LPCS-750-25.26 REV 2

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" LPCS (1)-4	12	80	0.688	SA 106 GR B	CS	UT-17
4" LPCS(1)-4	4	80	0.337	SA 106 GR B	CS	UT-20
10" LPCS(1)-4	10	80	0.594	SA 106 GR B	CS	UT-22

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	REVISED REFERENCE TO NOTES 3 & 4	KWL	KWL	KWL
0	11-29-78	ISSUED FOR USE (REDRAWN)	KWL	KWL	KWL
A	11-28-78	ISSUED FOR INFORMATION ONLY	KWL	KWL	KWL

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: GA KUGLER | DRAWN: K. McA | DATE: 10-31-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
LPCS DISCHARGE TO VESSEL

DWG NO: LPCS-101-2 | REV 1

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. LPCS(1)-4 DATE: 1/8/79

PERIOD: IIA DESCRIPTION: LOW PRESSURE CORE SPRAY REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	MT-1	MT-2	MT-3	MT-4			REQUIREMENTS	YEAR OF INTERVAL	
LPCS-101	LPCS-V-5	VALVE BODY	I-M-2					X		QCS&I-002				
LPCS-101	LPCS-V-5	VALVE BOLTING	I-G-2			X				QCS&I-002				
LPCS-101	LPCS-V-5/ 3/4 LOC	STEM LEAKOFF	I-P				X			QCS&I-002				
LPCS-101	12LPCS(1)-1	VLV TO PIPE	I-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-2	PIPE TO EL	I-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-2/ 3/4 V-14	TEST CONN	I-P				X			QCS&I-002				
LPCS-101	12LPCS(1)-3	EL TO PIPE	I-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-3/ 3/4 V-712	PRESSURE TAP	I-P				X			QCS&I-002				
LPCS-101	12LPCS(1)-4	PIPE TO EL	I-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				

NNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 6

INTERVAL: BASELINE / | SYSTEM OR COMPONENT NO. LPCS(1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: LOW PRESSURE CORE SPRAY | REVISION: 1

ISMG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
LPCS-101	12LPCS(1)-5	EL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-6	PIPE TO PEN	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-7	PEN TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-8	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				

WRP- 2 PROGRAM PLAN AND SCHEDULE PAGE 3 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. LPCS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: LOW PRESSURE CORE SPRAY REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
LPCS-101	12LPCS(1)-9	EL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-10	PIPE TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-11	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-12	EL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-13	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-14	EL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-15	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-16	EL TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				

MIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. LPCS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: LOW PRESSURE CORE SPRAY

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
LPCS-101	12LPCS(1)-17	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
LPCS-101	12LPCS(1)-18	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
LPCS-101	12LPCS(1)-18/ 4LPCS(1)-4	WOL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
LPCS-101	4LPCS(1)-1BU	FLANGE BOLTING	B-G-2			X				QCS&I-002				
LPCS-101	4LPCS(1)-1	FLNG TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			
LPCS-101	4LPCS(1)-2	PIPE TO WOL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			
LPCS-101	12LPCS(1)-19	PIPE TO VLV	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-17			
LPCS-101	LPCS-V-6	VALVE BODY	B-M-2					X		QCS&I-002				
LPCS-101	LPCS-V-6	VALVE BOLTING	B-G-2			X				QCS&I-002				
LPCS-101	LPCS-V-6/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. LPCS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: LOW PRESSURE CORE SPRAY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
LPCS-101	12LPCS(1)-20	VLV TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-20/ 3/4 V-38	TEST CONN	B-P				X			QCS&I-002				
LPCS-101	12LPCS(1)-21	PIPE TO VLV	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	LPCS-V-51	VALVE BODY	B-M-2			X				QCS&I-002				
							X			QCS&I-002				
								X		QCS&I-002				
LPCS-101	LPCS-V-51	VALVE BOLTING	B-G-2			X				QCS&I-002				
								X		QCS&I-002				
LPCS-101	12LPCS(1)-22	VLV TO PIPE	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-22PR	PHS	B-K-2											NOTE 1
LPCS-101	12LPCS(1)-23	PIPE TO EL	B-J	X						UTP-10	UT-17			
					X					PTP-1				
							X			QCS&I-002				
LPCS-101	12LPCS(1)-23/ 3/4 PI(1)-4S	PRESSURE TAP	B-P				X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. LPCS(1)-4

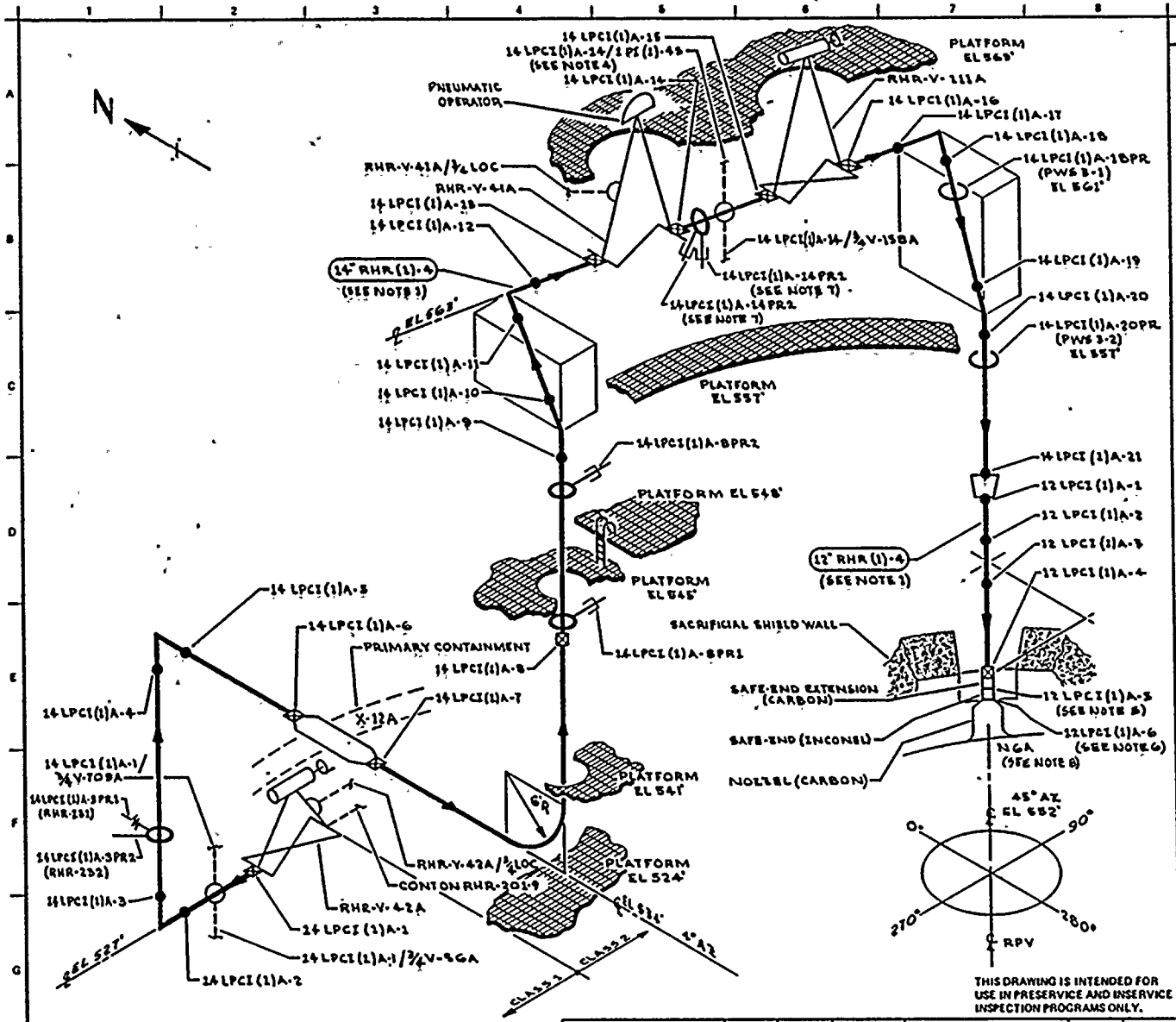
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: LOW PRESSURE CORE SPRAY

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
LPCS-101	10LPCS(1)-1	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-22			
LPCS-101	10LPCS(1)-2	PIPE TO S.E. EXT.	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-22			SEE RPV-105, NOZZLE N5
LPCS-101	10LPCS(1)-3	S.E. EXT. TO S.E.	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-106			SEE RPV-105, NOZZLE N5
LPCS-101	10LPCS(1)-4	S.E. TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			SEE RPV-105, NOZZLE N5



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELDS AT NOZZEL N6A REQUIRES TEMPORARY SCAFFOLDING.
3. PWS 18 PR IS WITHIN ~4" OF WELD 14 LPCI(1)-18
4. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-74b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. DISSIMILAR METAL WELD, CS TO INCO, - USE CAL BLOCK UT-106.
6. DISSIMILAR METAL WELD, INCO TO CS, - USE CAL BLOCK UT-102.
7. ACCESS TO WELD 14 LPCI(1)A-14 REQUIRES REMOVAL OF 14 LPCI(1)A-14PR1 & 14 LPCI(1)A-14PR2.
8. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-110.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-851-20	REV 2
RHR-851-21,24	REV 1
RHR-851-20H	REV 0

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14"RHR(1)-4	14	80	0.750	SA 106 GR B	CS	UT-14
12"RHR(1)-4	12	100	0.844	SA 106 GR B	CS	UT-16

NO	DATE	REVISION	BY	CHKD	APPVD
2	8-30-79	ADDED NOTE 8. ADDED CALLOUT IN A-4			
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 5)			
0	11-27-78	ISSUED FOR USE			
A	3-15-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D PORTER | DRAWN: K. McA | DATE: 12-1-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "A"

DWG NO: RHR-101 | REV 2

UNIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RHR/LPCI LOOP "A" REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-101	RHR-V-42A	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-101	RHR-V-42A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-101	RHR-V-42A/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-101	14LPCI(1)A-1	VLV TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-1/ 3/4V-709A	PRESS TAP	B-P				X			QCS&I-002				
RHR-101	14LPCI(1)A-1/ 3/4V-56A	TEST CONN	B-P				X			QCS&I-002				
RHR-101	14LPCI(1)A-2	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-3	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-3PR1	SPRING HANGER	B-K-2						X	QCS&I-002				
RHR-101	14LPCI(1)A-3PR2	RIGID HANGER	B-K-2					X		QCS&I-002				

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RHR/LPCI LOOP "A" REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-101	14LPCI(1)A-4	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-5	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-6	PIPE TO PEN	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-7	PEN TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-8	PIPE TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-8PR1	SNUBBER	B-K-2						X	QCS&I-002				
RHR-101	14LPCI(1)A-8PR2	SNUBBER	B-K-2						X	QCS&I-002				
RHR-101	14LPCI(1)A-9	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				

HHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 3 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RHR/LPCI LOOP "A" REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-101	14LPCI(1)A-10	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-11	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-12	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-13	PIPE TO VLV	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	RHR-V-41A	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-101	RHR-V-41A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-101	RHR-V-41A/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-101	14LPCI(1)A-14	VLV TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-14PR1	SNUBBER	B-K-2						X	QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR/LPCI LOOP "A" | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-101	14LPCI(1)A-14 PR2	SNUBBER	B-K-2						X	QCS&I-002				
RHR-101	14LPCI(1)A-14/1 PI(1)-45	PRESS. TAP	B-P				X			QCS&I-002				
RHR-101	14LPCI(1)A-14/3/4 V-158A	PRESS. TAP	B-P				X			QCS&I-002				
RHR-101	14LPCI(1)A-15	PIPE TO VLV	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RHR-101	RHR-V-111A	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-101	RHR-V-111A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-101	14RHR(1)A-16	VLV TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RHR-101	14RHR(1)A-17	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RHR-101	14RHR(1)A-18	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RHR-101	14LPCI(1)A-18PR	PWS												NOTE 1

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 5 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RHR/LPCI LOOP "A" REVISION: 0

ORIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-101	14LPCI(1)A-19	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-20	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	14LPCI(1)A-20PR	PHS												NOTE 1
RHR-101	14LPCI(1)A-21	PIPE TO REDUCER	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	12LPCI(1)A-1	REDUCER TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	12LPCI(1)A-2	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	12LPCI(1)A-3	EL TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-101	12LPCI(1)A-4	PIPE TO SE EXT	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				

VRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-4

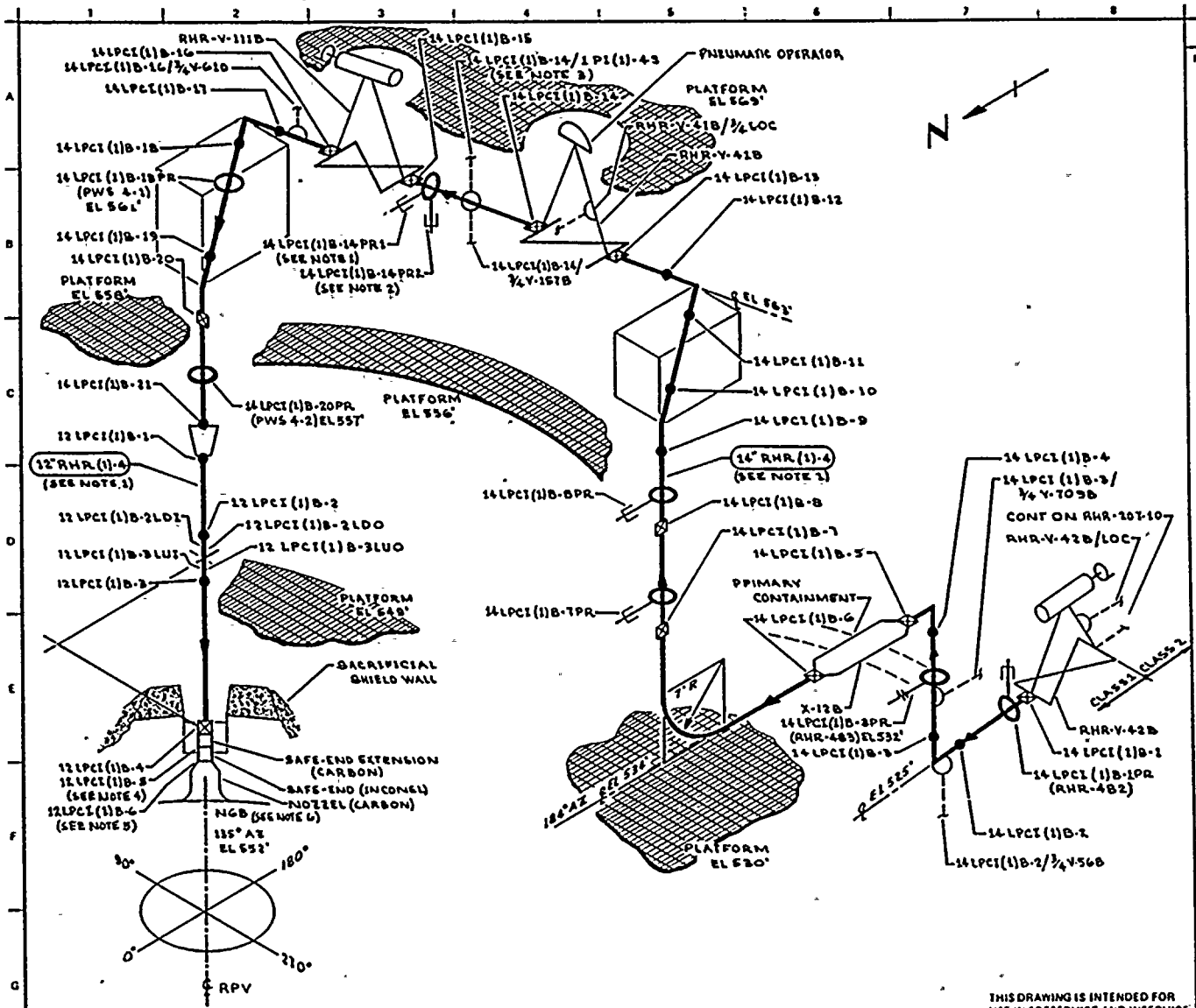
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHR/LPCI LOOP "A"

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-101	12LPCI(1)A-5	SE EXT TO SE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-106			DISSIMILAR METAL (CS-INCO)
RHR-101	12LPCI(1)A-6	SE TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			DISSIMILAR METAL (CS-INCO)



NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELD 14 LPCI(1)B-15 REQUIRES REMOVAL OF 14 LPCI(1)B-14 PR1 & 2
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT (X-39b) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. DISSIMILAR METAL WELD, CS TO INCO, USE CAL BLOCK UT-106.
5. DISSIMILAR METAL WELD, INCO TO CS, USE CAL BLOCK UT-102.
6. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-110.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-899-38	REV 2
RHR-899-38-44	REV 1
RHR-899-88H	REV 0

QUALITY CLASS: 1		ASME CODE CLASS: 1	
ENGR: D PORTER	DRAWN: K-M-C-A	DATE: 12-9-77	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-4	14	80	0.750	SA-106 GR B	CS	UT-14
12" RHR (1)-4	12	100	0.844	SA-106 GR B	CS	UT-16

NO	DATE	REVISION	BY	CHKD	APPVD
2	7-25-79	DELETED ELBOW SEAM WELDS DOWN STREAM FROM [illegible]	[illegible]	[illegible]	[illegible]
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 4)	[illegible]	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	8-15-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "B"

DWG NO: RHR-102 REV 2

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE i of 7

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR/LPCI LOOP "B" | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-102	RHR-V-42B	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-102	RHR-V-42B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-102	RHR-V-42B/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-1	VLV TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-1PR	SNUBBER	B-K-2						X	QCS&I-002				
RHR-102	14LPCI(1)B-1/ 3/4V-56B	TEST CONN	B-P			X				QCS&I-002				
RHR-102	14LPCI(1)B-2	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-3	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-3/ 3/4V-709B	PRESS. TAP	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-3PR	SPRING HANGER	B-K-2					X		QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 7

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR/LPCI LOOP "B" | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-102	14LPCI(1)B-4	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-5	EL TO PEN	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-6	PEN TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-7	PIPE TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-7PR	SNUBBER	B-K-2						X	QCS&I-002				
RHR-102	14LPCI(1)B-8	PIPE TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-8PR	SNUBBER	B-K-2						X	QCS&I-002				
RHR-102	14LPCI(1)B-9	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR(1)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RIIR/LPCI LOOP "B"

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-102	14LPCI(1)B-10	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-102	14LPCI(1)B-11	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-102	14LPCI(1)B-12	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-102	14LPCI(1)B-13	PIPE TO VLV	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				

MRP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 7

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4 DATE: 1/8/79

PERIOD: 1A DESCRIPTION: RHR/LPCI LOOP "B" REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-102	RHR-V-41B	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-102	RHR-V-41B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-102	RHR-V-41B/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-14	VLV TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-14/ 1PI(1)-4S	PRESS. TAP	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-14/ 3/4V-157B	TEST CONN	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-14PR1	SNUBBER	B-K-2						X	QCS&I-002				
RHR-102	14LPCI(1)B-14PR2	SNUBBER	B-K-2						X	QCS&I-002				
RHR-102	14LPCI(1)B-15	PIPE TO VLV	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	RHR-V-111B	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-102	RHR-V-111B	VALVE BOLTING	B-G-2			X				QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RHR/LPCI LOOP "B"

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-102	14LPCI(1)B-16	VALVE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RHR-102	14LPCI(1)B-16/ 3/4V-610	TEST CONN	B-P				X			QCS&I-002				
RHR-102	14LPCI(1)B-17	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RHR-102	14LPCI(1)B-18	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			

WIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 6 of 7

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4 DATE: 1/8/79

PERIOD: IIA DESCRIPTION: RHR/LPCI LOOP "B" REVISION: 0

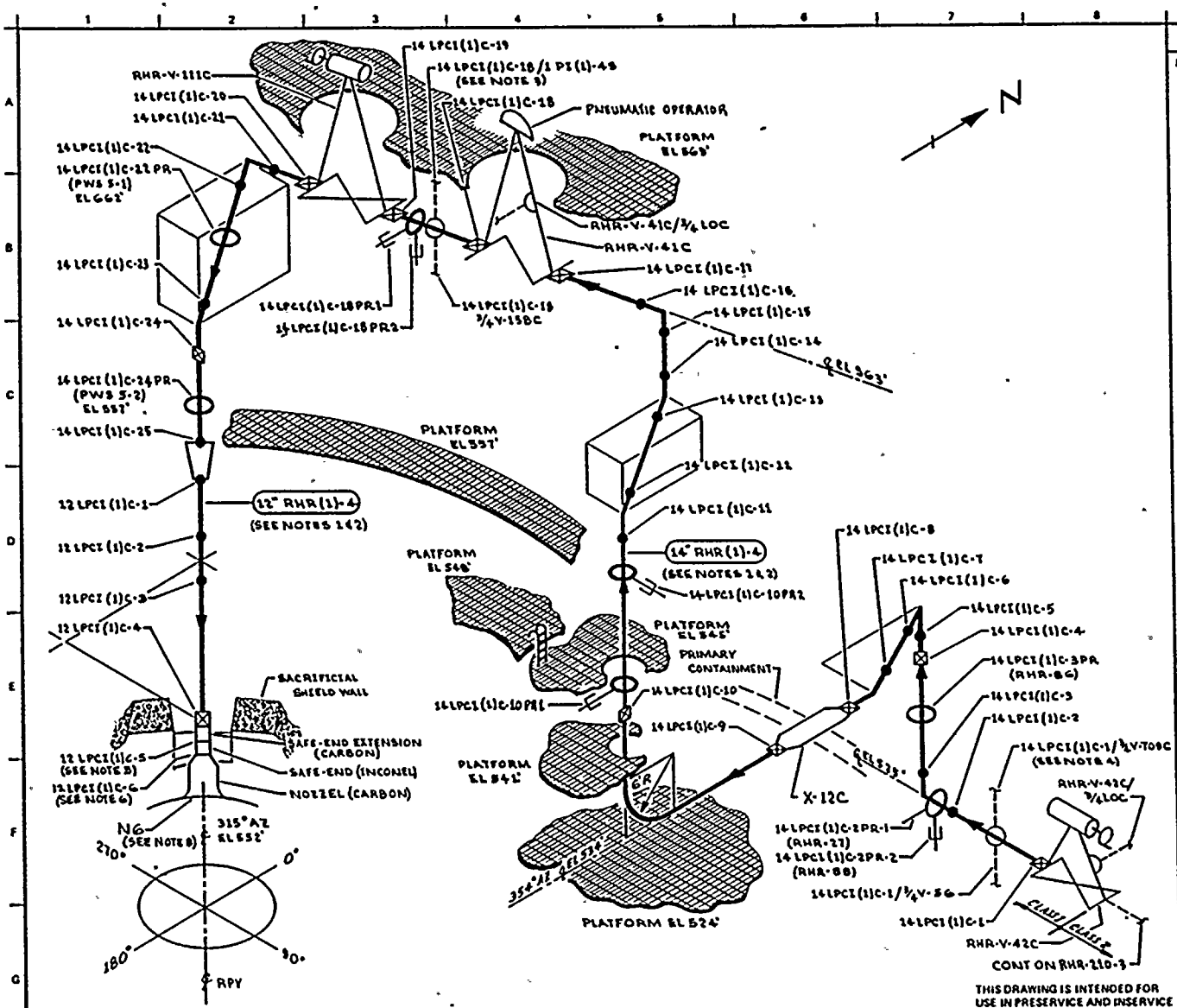
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-102	14LPCI(1)B-18PR	PHS												NOTE 1
RHR-102	14LPCI(1)B-19	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-20	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	14LPCI(1)B-20PR	PHS												NOTE 1
RHR-102	14LPCI(1)B-21	PIPE TO REDUCER	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	12LPCI(1)B-1	REDUCER TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	12LPCI(1)B-2	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-102	12LPCI(1)B-2LD1	EL SEAT	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 7

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR/LPCI LOOP "B" | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-102	12LPCI(1)B-2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RHR-102	12LPCI(1)B-3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RHR-102	12LPCI(1)B-3LUD	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RHR-102	12LPCI(1)B-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RHR-102	12LPCI(1)B-4	PIPE TO SE EXT	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RHR-102	12LPCI(1)B-5	SE EXT TO SE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-105			DISSIMILAR METAL (CS-INCO)
RHR-102	12LPCI(1)B-6	SE TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			DISSIMILAR METAL (CS-INCO)



NOTES:

1. WELD NUMBERING UTILIZES "LPCI" RATHER THAN "RHR" FOR SYSTEM DESIGNATION FOR CLARITY.
2. ACCESS TO WELDS 12 LPCI(1)C-1 THROUGH 12 LPCI(1)C-6 & 14 LPCI(1)C-24 REQUIRES TEMPORARY SCAFFOLDING.
3. EXTEND VISUAL LEAKAGE EXAM THROUGH CONTAINMENT (X-39C) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. EXTEND VISUAL LEAKAGE EXAM THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
5. DISSIMILAR METAL WELD, CS TO INCO, - USE CAL BLOCK UT-100.
6. DISSIMILAR METAL WELD, INCO TO CS, - USE CAL BLOCK UT-102.
7. ACCESS TO WELD 14 LPCI(1)C-18 REQUIRES REMOVAL OF 14 LPCI(1)C-18PR1 & 14 LPCI(1)C-18PR2.
8. FOR DETAILS OF NOZZLE ASSEMBLY SEE RPV-110

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-897-19 REV 2
RHR-897-20-24 REV 8

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR(1)-4	14	80	0.750	SA-106 GR B	CS	UT-14
12" RHR(1)-4	12	100	0.844	SA-106 GR B	CS	UT-16

NO	DATE	REVISION	BY	CHKD	APPVD
2	11/7/79	CORRECTED NOTE 7, ADDED NOTE 8 & CALL-OUT EEI A-4			
1	5-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 5)			
0	11/15/78	ISSUED FOR USE			
A	9-15-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D PORTER | DRAWN: K-M-A | DATE: 12-9-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR/LPCI LOOP "C"

DWG NO: RHR-102 | REV 2

VHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHR SHUTDOWN COOLING SUCTION .

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-103	RHR-V-42C	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-103	RHR-V-42C	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-103	RHR-V-42C/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-103	14LPCI(1)C-1	VLV TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	14LPCI(1)C-1/ 3/4V-56C	TEST CONN	B-P				X			QCS&I-002				
RHR-103	14LPCI(1)C-1/ 3/4V-709C	PRESS. TAP	B-P				X			QCS&I-002				
RHR-103	14LPCI(1)C-2	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	14LPCI(1)C-2PR1	RIGID HANGER	B-K-2					X		QCS&I-002				
RHR-103	14LPCI(1)C-2PR2	SNUBBER	B-K-2						X	QCS&I-002				
RHR-103	14LPCI(1)C-3	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				

WRP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 2 of 6

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RIIR SHUTDOWN COOLING SUCTION

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	ISUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-103	14LPCI(1)C-3PR	SPRING HANGER	B-K-2						X	QCS&I-002				
RIIR-103	14LPCI(1)C-4	PIPE TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-5	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-6	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-7	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-8	EL TO PEN	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-9	PEN TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-10	PIPE TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				

VRIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RIIR(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RIIR SHUTDOWN COOLING SUCTION | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-103	14LPCI(1)C-10PR1	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-103	14LPCI(1)C-10PR2	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-103	14LPCI(1)C-11	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-12	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-13	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-14	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-15	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RIIR-103	14LPCI(1)C-16	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				

HHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RHR SHUTDOWN COOLING SUCTION REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-103	14LPCI(1)C-17	PIPE TO VLV	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RHR-103	RHR-V-41C	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-103	RHR-V-41C	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-103	RHR-V-41C/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-103	14LPCI(1)C-18	VLV TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			
RHR-103	14LPCI(1)C-18/ 1PI(1)-45	PRESSURE TAP	B-P				X			QCS&I-002				
RHR-103	14LPCI(1)C-18/ 3/4V-158C	TEST CONN	B-P				X			QCS&I-002				
RHR-103	14LPCI(1)C-18PR1	SNUBBER	B-K-2						X	QCS&I-002				
RHR-103	14LPCI(1)C-18PR2	SNUBBER	B-K-2						X	QCS&I-002				
RHR-103	14LPCI(1)C-19	PIPE TO VLV	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-14			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR SHUTDOWN COOLING SUCTION | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-103	RHR-V-111C	VALVE BODY	B-M-2				X			QCS&I-002				
								X		QCS&I-002				
RHR-103	RHR-V-111C	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-103	14LPCI(1)C-20	VLV TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	14LPCI(1)C-21	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	14LPCI(1)C-22	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	14LPCI(1)C-22PR	PHS								QCS&I-002				NOTE 1
RHR-103	14LPCI(1)C-23	PIPE TO EL	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	14LPCI(1)C-24	EL TO PIPE	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	14LPCI(1)C-24PR	PHS												NOTE 1

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 6 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: RHR SHUTDOWN COOLING SUCTION REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-103	14LPCI(1)C-25	PIPE TO REDUCER	B-J	X						UTP-10	UT-14			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	12LPCI(1)C-1	REDUCER TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	12LPCI(1)C-2	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	12LPCI(1)C-3	EL TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	12LPCI(1)C-4	PIPE TO SE EXT	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-103	12LPCI(1)C-5	SE EXT TO SE	B-F	X						UTP-31	UT-10			DISSIMILAR METAL (CS-INCO)
					X					PTP-1				
							X			QCS&I-002				
RHR-103	12LPCI(1)C-6	SE TO NOZZLE	B-F	X						UTP-31	UT-10			DISSIMILAR METAL (CS-INCO)
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RHR(2)-4

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: RHR SHUTDOWN COOLING SUCTION

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-104	RHR-V-113	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-104	RHR-V-113	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-104	20RHR(2)-1/ 3/4-164	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-104	20RHR(2)-1	VLV TO SE	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RHR-104	20RHR(2)-1PR	SNUBBER	B-K-2					X		QCS&I-002				
RHR-104	20RHR(2)-2	SE TO PIPE	B-F	X						UTP-10	UT-9			DISSIMILAR METAL, SS TO CS
					X					PTP-1				
							X			QCS&I-002				
RHR-104	RHR-V-9	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-104	RHR-V-9	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-104	RHR-V-9/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-104	20RHR(2)-3	VLV TO PIPE	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RHR-104	20RHR(2)-4	PIPE TO EL	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR(2)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RIIR SHUTDOWN COOLING SUCTION

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-104	20RIIR(2)-4/ 1PI(1)-4S-1	PRESS. TAP	B-P				X			QCS&I-002				
RIIR-104	20RIIR(2)-4/ 1PI(1)-4S-2	PRESS. TAP	B-P				X			QCS&I-002				
RIIR-104	20RIIR(2)-5	EL TO PIPE	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RIIR-104	20RIIR(2)-5PR1	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-5/ 3/4V605	TEST CONN	B-P				X			QCS&I-002				
RIIR-104	20RIIR(2)-5PR2	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-5PR3	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-5PR4	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-6	PIPE TO PIPE	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR(2)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RIIR SHUTDOWN COOLING SUCTION

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-104	20RIIR(2)-6A	PIPE TO PIPE	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RIIR-104	20RIIR(2)-7	PIPE TO PIPE	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR (2)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RIIR SHUTDOWN COOLING SUCTION

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-104	20RIIR(2)-7PR1	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-7PR2	SNUBBER	B-K-2						X	QCS&I-002				
RIIR-104	20RIIR(2)-8	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-10			
RIIR-104	20RIIR(2)-9	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-10			
RIIR-104	20RIIR(2)-10	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-10			
RIIR-104	20RIIR(2)-11	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-10			
RIIR-104	20RIIR(2)-12	PIPE TO PEN	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-10			
RIIR-104	20RIIR(2)-13	PEN TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-10			

VHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(2)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHR SHUTDOWN COOLING SUCTION

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-104	20RHR(2)-13/ 3/4V-2	TEST CONN	B-P				X			QCS&I-002				
RHR-104	20RHR(2)-14	PIPE TO EL	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RHR-104	20RHR(2)-15	EL TO PIPE	B-J	X						UTP-10	UT-10			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RHR-104	20RHR(2)-16	PIPE TO EL	B-J	X						UTP-10	UT-10			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RHR-104	20RHR(2)-16PR	HANGER	B-K-2					X		QCS&I-002				
RHR-104	20RHR(2)-17	EL TO PIPE	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RHR-104	20RHR(2)-17PR	HANGER	B-K-2					X		QCS&I-002				
RHR-104	20RHR(2)-18	PIPE TO VLV	B-J	X						UTP-10	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RHR-104	RHR-V-8	VALVE BODY	B-M-2					X		QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 5

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(2)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR SHUTDOWN COOLING SUCTION | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-104	RHR-V-8	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-104	RHR-V-8/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-4, 4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "A"

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-105	RHR-V-53A	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-105	RHR-V-53A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-105	RHR-V-53A/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-1	VLV TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-2	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-2/ 3/4V-602	VENT CONN	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-3	EL TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-4	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-4/ 3/4V-59A	TEST CONN	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-5	EL TO PEN	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4, 4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "A" | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-105	12RHR(1)A-6	PEN TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-7	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-8	EL TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-9	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-10	EL TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-10PR	HANGER	B-K-2					X		QCS&I-002				
RHR-105	12RHR(1)A-11	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-12	EL TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				

WIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4, 4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "A" | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-105	12RHR(1)A-12PR1	SNUBBER	B-K-2						X	QCS&I-002				
RHR-105	12RHR(1)A-12PR2	SNUBBER	B-K-2						X	QCS&I-002				
RHR-105	12RHR(1)A-12/1V-123A	BYPASS CONN	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-13	PIPE TO VLV	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	RHR-V-50A	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-105	RHR-V-50A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-105	RHR-V-50A/3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-14	VLV TO SE	B-F	X						UTP-10	UT-19			DISSIMILAR METAL, CS-SS
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-15	SE TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RHR-105	12RHR(1)A-15LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

INTERVAL: Baseline

PERIOD: N/A

PROGRAM PLAN AND SCHEDULE

SYSTEM OR COMPONENT NO. RHR(1)-4, 4S

DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "A"

DATE: 7/27/79

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-105	12RHR(1)A-15/ 1V-123A	BYPASS CONN	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-15PR	SNUBBER	B-K-2						X	QCS&I-002				
RHR-105	12RHR(1)A-16LU	PIPE SEAM	B-J	X	X					UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)A-16	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)A-16LDI	ELL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)A-16LDO	ELL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)A-16/ 3/4V-162A	TEST CONN	B-P				X			QCS&I-002				
RHR-105	12RHR(1)A-17LUI	ELL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)-A 17LUO	ELL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4a of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4, 4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "A" | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-105	12RHR(1)A-17	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)A-17LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)A-17PR	PWS												NOTE 1
RHR-105	12RHR(1)A-18LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	12RHR(1)A-18	PIPE TO VLV	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RHR-105	RHR-V-112A	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-105	RHR-V-112A	VALVE BOLTING	B-G-2			X				QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4, 4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "B" | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-106	RHR-V-53B	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-106	RHR-V-53B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHR-106	RHR-V-53B/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-106	12RHR(1)B-1	VLV TO PEN	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-1/ 3/4-59B	TEST CONN	B-P				X			QCS&I-002				
RHR-106	12RHR(1)B-2	PEN TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-3	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-4	EL TO PIPE	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-5	PIPE TO EL	B-J	X						UTP-10	UT-16			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-4, 4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "B" | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-106	12RHR(1)B-6	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RHR-106	12RHR(1)B-6PR	SNUBBER	B-K-2						X	QCS&I-002				
RHR-106	12RHR(1)B-7	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RHR-106	12RHR(1)B-8	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RHR-106	12RHR(1)B-8PR1	SNUBBER	B-K-2						X	QCS&I-002				
RHR-106	12RHR(1)B-8PR2	SNUBBER	B-K-2						X	QCS&I-002				
RHR-106	12RHR(1)B-8/1V-123B	BYPASS CONN	B-P				X			QCS&I-002				
RHR-106	12RHR(1)B-9	PIPE TO VLV	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-16			
RHR-106	RHR-V-50B	VALVE BODY	B-M-2					X		QCS&I-002				
RHR-106	RHR-V-50B	VALVE BOLTING	B-G-2			X				QCS&I-002				

HRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-4, 4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "B"

REVISION: 0

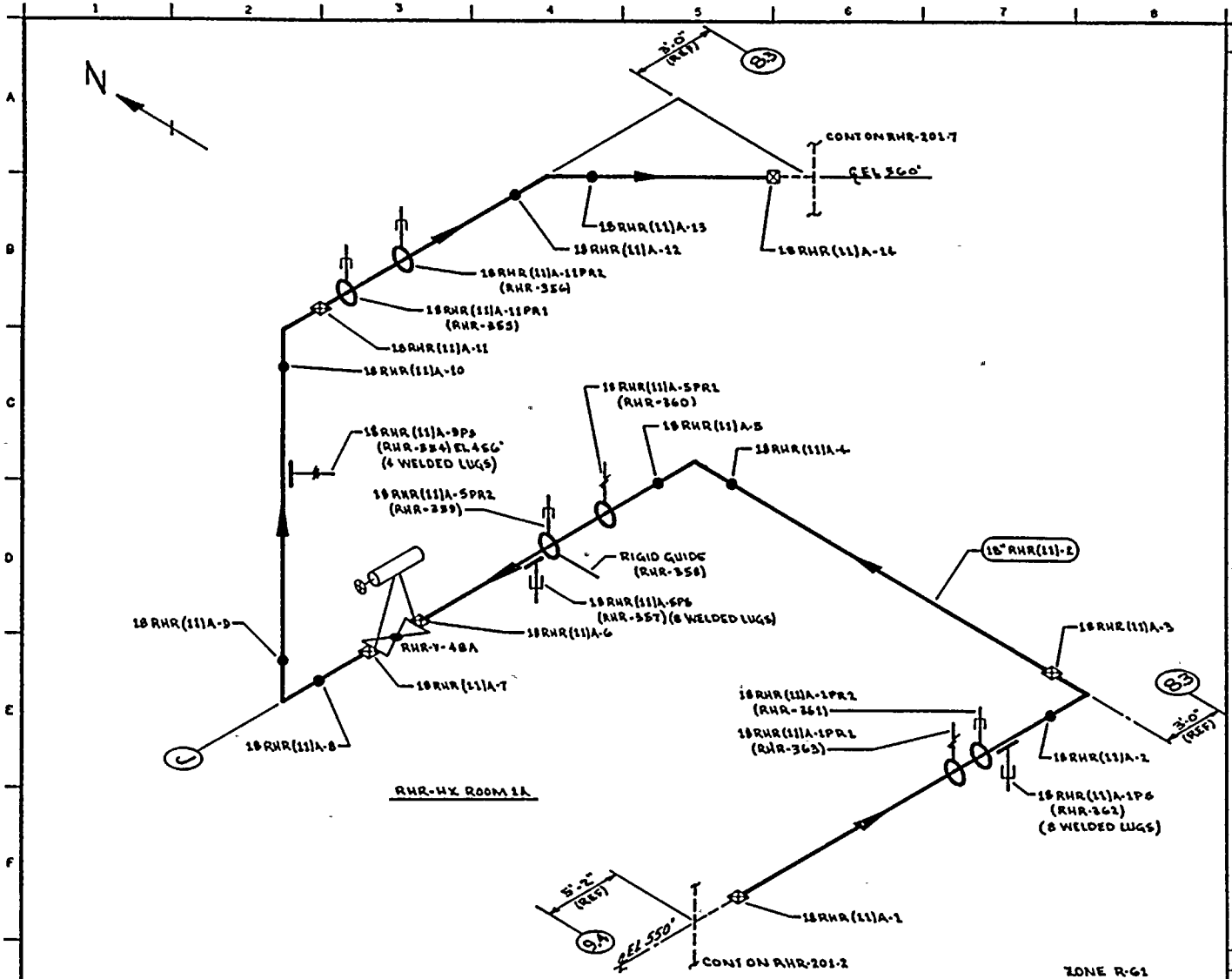
ISIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-106	RHR-V-50B/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHR-106	12RHR(1)B-10	VLV TO SE	B-F	X						UTP-10	UT-19			DISSIMILAR METAL, CS-SS
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-11	SE TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-11LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-11LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RHR-106	12RHR(1)B-11PR	SNUBBER	B-K-2						X	QCS&I-002				
RHR-106	12RHR(1)B-11/ 1V-123B	BYPASS CONN	B-P				X			QCS&I-002				
RHR-106	12RHR(1)B-11/ 3/4V-162B	TEST CONN	B-P				X			QCS&I-002				
RHR-106	12RHR(1)B-12LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 4

INTERVAL: BASELINE 1 | SYSTEM OR COMPONENT NO. RIIR(1)-4, 4S | DATE: 7/27/79

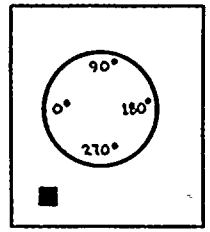
PERIOD: NA | DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "B" | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-106	12RIIR(1)B-12LUO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RIIR-106	12RIIR(1)B-12	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RIIR-106	12RIIR(1)B-12LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RIIR-106	12RIIR(1)B-12PR	PWS 7-1												NOTE 1
RIIR-106	12RIIR(1)B-13LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RIIR-106	12RIIR(1)B-13	PIPE TO VLV	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RIIR-106	RIIR-V-112B	VALVE BODY	B-M-2					X		QCS&I-002				
RIIR-106	RIIR-V-112B	VALVE BOLTING	B-G-2			X				QCS&I-002				



NOTES:

REFERENCES:
BOVEY & CRAIL ISOMETRICS
RHR-852-1.4 REV 1
RHR-852-1.4H REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: GA KUGLER	DRAWN: K.M.A. DATE: 5-3-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

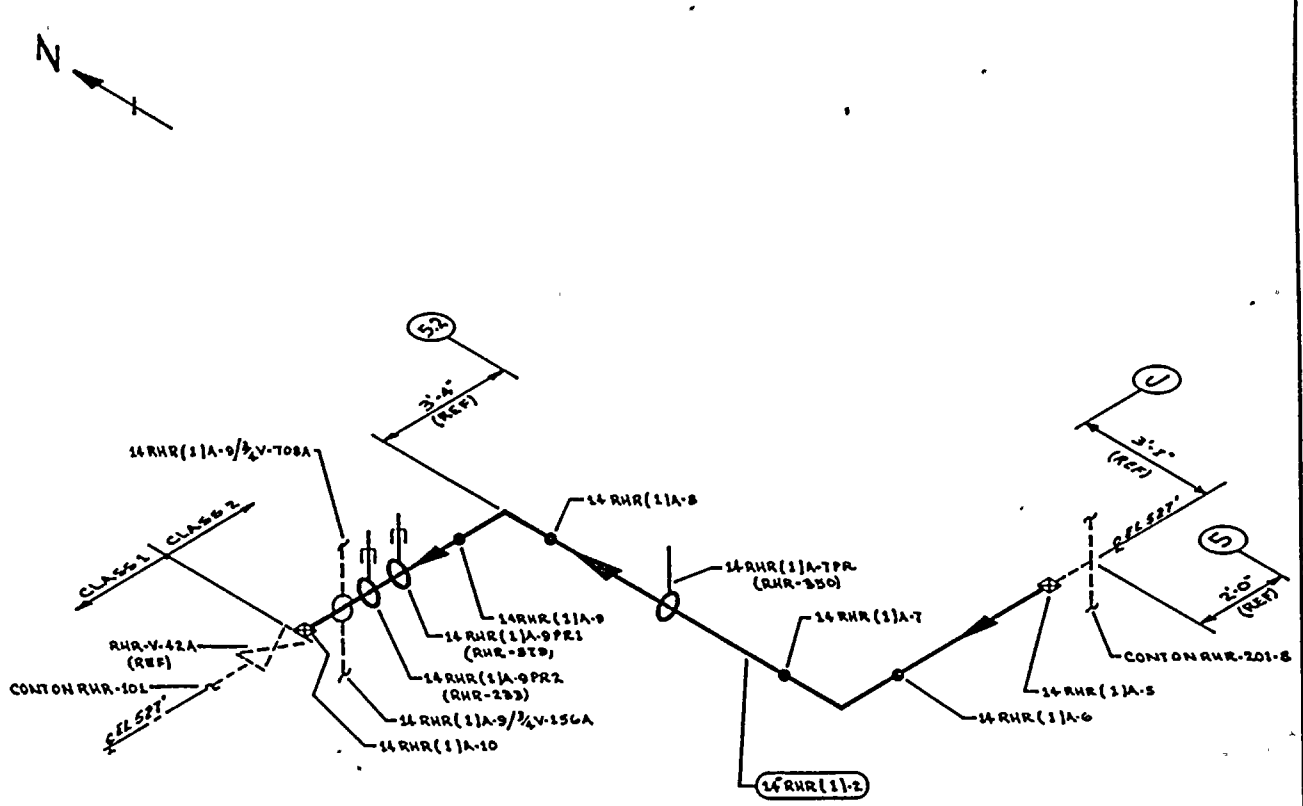
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (11)-2	18	30	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
RHR-HEAT-EXCHANGER BYPASS

DWG NO: RHR-201-5 REV 0

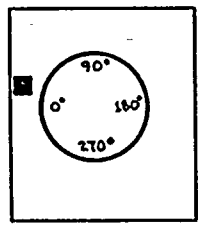
NO	DATE	REVISION	BY	CHKD	APPVD
0	11-11-78	ISSUED FOR USE	KMA	GAK	GAK
A	5-16-78	ISSUED FOR INFORMATION ONLY	KMA	GAK	GAK



ZONE R-52

NOTES:

REFERENCES:
BOVEE & CRAIL ISOMETRIC
RHR-851-18.19 REV 8
RHR-851-18.19H REV 1



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR (1)-2	14	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	8/28/79	ISSUED FOR USE	KWL	KKS	
A	5-26-78	ISSUED FOR INFORMATION ONLY	KWL	CHK	APVD

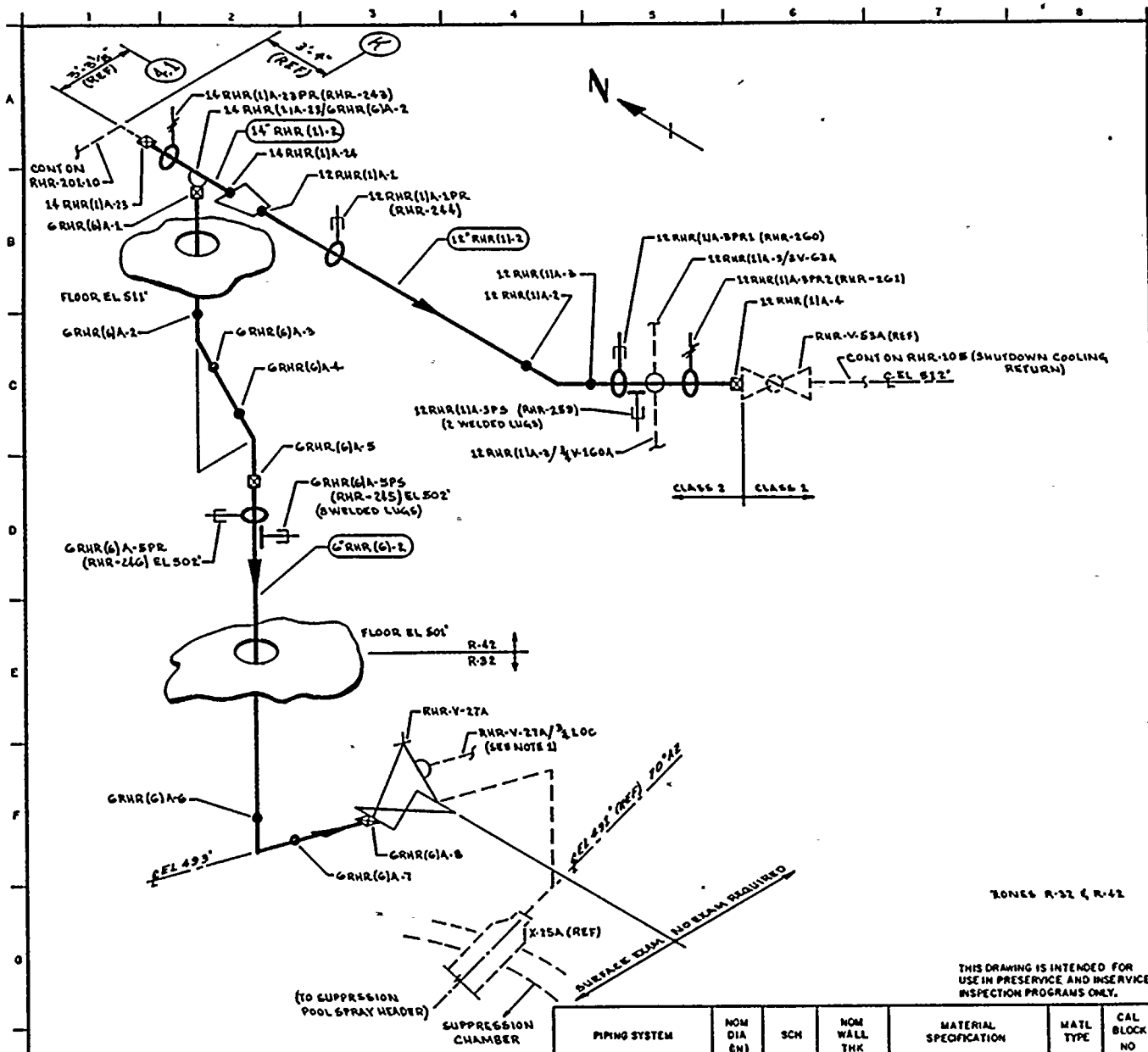
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: G.A. KUGLER | DRAWN: K.M.L.A. | DATE: 5-5-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A/LPCI RETURN

DWG NO: RHR-201-8 | REV 0



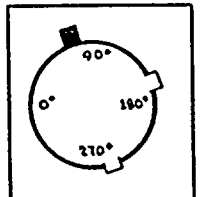
NOTES:

1. THIS IS A 3/4" CONNECTION WITH VISUAL EXAM EXTENDING TO 3/4" V-175A.

REFERENCES:

BOVEE & CRAIL ISOMETRICS:

RHR-851-13	REV 0
RHR-855-13	REV 4
RHR-851-13H	REV 0
RHR-855-13H	REV 3



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
14" RHR(1)-2	14	STD	0.375	SA 106 GR B	CS	NA
12" RHR(1)-2	12	STD	0.375	SA 106 GR B	CS	NA
6" RHR(6)-2	6	40	0.280	SA 106 GR B	CS	NA

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-11-78	ISSUED FOR USE	K.M.A	K.M.A	
A	5-24-78	ISSUED FOR INFORMATION ONLY	K.M.A	GAK	

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.C.A. | DATE: 5-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP A SHUTDOWN COOLING RETURN & SUPPRESSION POOL SPRAY SUPPLY

DWG NO: RHR-201-11 | REV 0

UNIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 20

INTERVAL.: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	14 RHR(1) A-1BU	FLANGE BOLTING	C-D			X				QCS&I-002				20-11/8" FULL THRD STUDS W/NUTS
RHR-201	14 RHR(1) A-1	FLANGE TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-201	14 RHR(1) A-2	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-201	14 RHR(1) A-3	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-201	14 RHR(1) A-4	PIPE TO REDUCER	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-201	18 RHR(1) A-1	REDUCER TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-201	18 RHR(1) A-1PS/ (1 THRU 4)	WELDED SUPPORT	C-E-1		X					PTP-1				
		SPRING HANGER	C-E-2						X	QCS&I-002				4 WELDED LUGS
RHR-201	18 RHR(1) A-2	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-201	18 RHR(1) A-3	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-201	18 RHR(1) A-3PR1	RIGID HANGER	C-E-2					X		QCS&I-002				

IWP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A-3PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-3PR3	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-201	18 RHR(1) A-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-5PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-7PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-7PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-8	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 20

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	10 RHR(1) A-2	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	10 RHR(1) A-1	PIPE TO CAP	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-8/6 RHR(7)-2	BRANCH CONN.	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-9	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-9/3/4 CAP	CAPPED CONN.	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-9/3/4 V-704A	INST. CONN.	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-10	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	RHR-V-31A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-201	18 RHR(1) A-11	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-11/1½ V-84A	CROSSTIE CONN.	IWC-2510				X			QCS&I-002				

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INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-2 DATE: 1/8/79

PERIOD: IIA DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A-12	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	RHR-V-110A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-201	18 RHR(1) A-13	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-13/8V-72A	FLUSH CONN.	IWC-				X			QCS&I-002				
RHR-201	18 RHR(1) A-13PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-13/3/4 V-705A	INST. CONN.	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-13PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-13PS/(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-14	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-15	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

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INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-2 DATE: 1/8/79

PERIOD: HA DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A-16	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-17	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	16 RHR(1) A-18	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-19	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-20	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-21	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-22	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-23	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-24	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-25	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-26	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 1/8/79

PERIOD: HA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A-27	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	RHR-V-47A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-201	18 RHR(1) A-28	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-29	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-30	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-31	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-32	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-33	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-34	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-35	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-36	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A-37	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-37/1¼ TE-N004A	INST. CONN.	IWC-2510				X			QCS&I-002				
RHR-201	20 RHR(1) A-1	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	20 RHR(1) A-2	PIPE TO NOZZLE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(7) A-1	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(7) A-1 3/4 V-144A	TEST CONN.	IWC-2510				X			QCS&I-002				
RHR-201	6 RHR(7) A-2	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(7) A-3	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(7)A-3PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	6 RHR(7)A-3/3/4V-145A	TEST CONN	IWC-2510				X			QCS&I-002				

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PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-2

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	6RHR(7)A-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6RHR(7)A-5	EL TO ORIFICE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18RHR(11)A-1	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18RHR(11)A-1PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18RHR(11)A-1PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18RHR(11)A-1PS	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18RHR(11)A-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 8 of 20

INTERVAL: BASELINE /

SYSTEM OR COMPONENT NO. RHR (1)-2

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(11) A-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A5PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(11) A-5PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(11) A-5PS	SNUBBER	C-E-2						X	QCS&I-002				8 WELDED LUGS
RHR-201	18 RHR(11) A-6	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	RHR-V-48A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-201	18 RHR(11) A-7	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-8	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11)A-9	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-9PS/(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8a of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(11) A-10	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

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PROGRAM PLAN AND SCHEDULE

PAGE 9 of 20

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(11) A-11	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-11PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(11) A-11PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(11) A-12	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-13	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(11) A-14	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	20 RHR(1) A-3	NOZZLE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	20 RHR(1) A-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	20 RHR(1) A-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	20 RHR(1) A-6	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-38	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 10 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A-38PS/(1-4)	WELDED SUPPORT	C-E-1			X				PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A38/1¼ CE-H001	INST. CONN.	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-38/4V-26A	BRANCH CONN.	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-38PR	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-201	18 RHR(1) A-39	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-40	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-40/3/4 V-81A	DRAIN CONN.	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-40/3/4 V-75A	SAMPLING CONN.	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-41	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				

VIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 11 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RIIR(1)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RIIR LOOP A, SUPPLY TO RIIR IIX-1A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-201	RIIR-V-3A	VALVE BOLTING	C-D			X				QCS&I-002				
RIIR-201	18 RIIR(1) A-42	VALVE TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RIIR-201	18 RIIR(1) A-43	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RIIR-201	18 RIIR(1) A-44	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RIIR-201	18 RIIR(1) A-44PS/(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		RIGID HANGER	C-E-2						X	QCS&I-002				
RIIR-201	18 RIIR(1) A-44PR	RIGID HANGER	C-E-2						X	QCS&I-002				
RIIR-201	18 RIIR(1) A-45	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RIIR-201	18 RIIR(1) A-46	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RIIR-201	18 RIIR(1) A-47	PIPE TO TEE	C-F		X					PTP-1				
							X			QCS&I-002				
RIIR-201	18 RIIR(1) A-48	TEE TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				

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INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A-48PR	SNUBBER	C-E-2						X	QCS&I-002				4 WELDED LUGS
RHR-201	18 RHR(1) A-48PS/(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-49	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-50	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-50/1¼ TE-N027A	INST CONN	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-50PR1	SNUBBER	C-E-2					X		QCS&I-002				
RHR-201	18 RHR(1) A-50PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-51	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-51PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-51PR2	SNUBBER	C-E-2						X	QCS&I-002				

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A-51PR3	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	18 RHR(1) A-52	PIPE TO FLANGE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-52BD	FLANGE BOLTING	C-D			X				QCS&I-002				24 1½" FULL THRD STUDS W/NUTS
RHR-201	18 RHR(1) A-52/3/4 V-706A	INST. CONN.	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-52/3/4 V-707A	INST. CONN.	IWC-2510				X			QCS&I-002				
RHR-201	18 RHR(1) A-53	FLANGE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-54	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-55	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-56	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-57	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 14 of 20

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)-2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	18 RHR(1) A57PR1	RIGID HANGER	C-E-2					X		QCS&I-802				
RHR-201	18 RHR(1) A-57PR2	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-201	18 RHR(1) A-58	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-59	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-59PR	ANCHOR	C-E-2					X		QCS&I-002				
RHR-201	18 RHR(1) A-60	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-61	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-61PR	SNUBBER	C-E-2		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-62	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-63	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	18 RHR(1) A-63PS/(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS

UMP- 2 PROGRAM PLAN AND SCHEDULE PAGE 15 of 20

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RIIR(1)-2 DATE: 1/8/79

PERIOD: IIA DESCRIPTION: CLASS 2 RIIR LOOP A, SUPPLY TO RIIR IIX-1A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
		RIGID HANGER	C-E-2					X		QCS&I-002				
RIIR-201	18 RIIR(1) A-63PR-1	SNUBBER	C-E-2						X	QCS&I-002				
RIIR-201	18 RIIR(1) A63PR-2	SNUBBER	C-E-2						X	QCS&I-002				
RIIR-201	18 RIIR(1) A-64	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-201	18 RIIR(1) A-65	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-201	18 RIIR(1) A-66	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RIIR-201	14 RIIR(1) A-5	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-201	14 RIIR(1) A-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RIIR-201	14 RIIR(1) A-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-201	14 RIIR(1) A-7PR	RIGID HANGER	C-E-2						X	QCS&I-002				
RIIR-201	14 RIIR(1) A-8	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 16 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	14 RHR(1) A-9	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-9PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	14 RHR(1) A-9PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	14 RHR(1) A-9/3/4 V-708	INST. CONN.	IWC-2510				X			QCS&I-002				
RHR-201	14 RHR(1) A-9/3/4 V-156A	TEST CONN.	IWC-2510				X			QCS&I-002				
RHR-201	14 RHR(1) A-10	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-11	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-11PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	14 RHR(1) A-11PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	14 RHR(1) A-12	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 17 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	14 RHR(1) A-13	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-14	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-15	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-16	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-17	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-18	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-19	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-19PS/(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	14 RHR(1) A-19PR	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-201	14 RHR(1) A-20	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 18 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	14 RHR(1) A-21	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-22	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-23	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	14 RHR(1) A-23PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	14 RHR (1) A-23/6 RHR(6) A-2	BRANCH CONN	C-F		X		X			PTP-1 QCS&I_002				
RHR-201	14 RHR(1) A-24	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	12 RHR(1) A-1	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	12 RHR(1) A-1PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	12 RHR(1) A-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	12 RHR(1) A-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 19 of 20

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)-2, RHR(6)-2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	12 RHR(1) A-3PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	12 RHR(1) A-3PS/(1-2)	WELDED SUPPORT	C-E-1		X					PTP-1				2 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	12 RHR(1) A-3/3V-63A	FLUSH CONN.	IWC-2510				X			QCS&I-002				
RHR-201	12 RHR(1) A-3/3/4 V-160A	TEST CONN.	IWC-2510				X			QCS&I-002				
RHR-201	12 RHR(1) A-3PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-201	12 RHR(1) A-4	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(6) A-1	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(6) A-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(6) A-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

UMP- 2 PROGRAM PLAN AND SCHEDULE PAGE 20 of 20

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(6)-2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR LOOP A, SUPPLY TO RHR HX-1A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-201	6 RHR(6) A-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(6) A-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(6) A-5PR	SNUBBER	C-E-2						X	PTP-1				
RHR-201	6 RHR(6) A-5PS/(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-201	6 RHR(6) A-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(6) A-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	6 RHR(6) A-8	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-201	RHR-V-27A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-201	RHR-V-27A/ 3/4 LOC	STEM LEAKOFF	IWC-2510				X			QCS&I-002				

WIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. 16 RHR(5)-2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP A-DRYWELL SPRAY SUPPLY

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-202	16RHR(5)A-1	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	16RHR(5)A-1PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-202	16RHR(5)A-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	16RHR(5)A-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	16RHR(5)A-3PR	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-202	16RHR(5)A-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	16RHR(5)A-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	16RHR(5)A-5PS /(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-202	16RHR(5)A-5PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-202	16RHR(5)A-5PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-202	16RHR(5)A-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 3

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. 16 RHR(5)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A-DRYWELL SPRAY SUPPLY | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-202	16RHR(5)A-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	16RHR(5)A-7PS/ (1-4)	WELDED SUPPORT	C-E-2		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-202	16RHR(5)A-7PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-202	16RHR(5)A-8	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	16RHR(5)A-8/ 3/4 V-153A	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-202	16RHR(5)A-9	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	16RHR(5)A-9PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-202	16RHR(5)A-10	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	RHR-V16A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-202	16RHR(5)A-11	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	16RHR(5)A-11/ 3/4V-10A	TEST CONN	IWC-2510				X			QCS&I-002				

HHP- 2

INTERVAL: BASELINE

PERIOD: NA

PROGRAM PLAN AND SCHEDULE

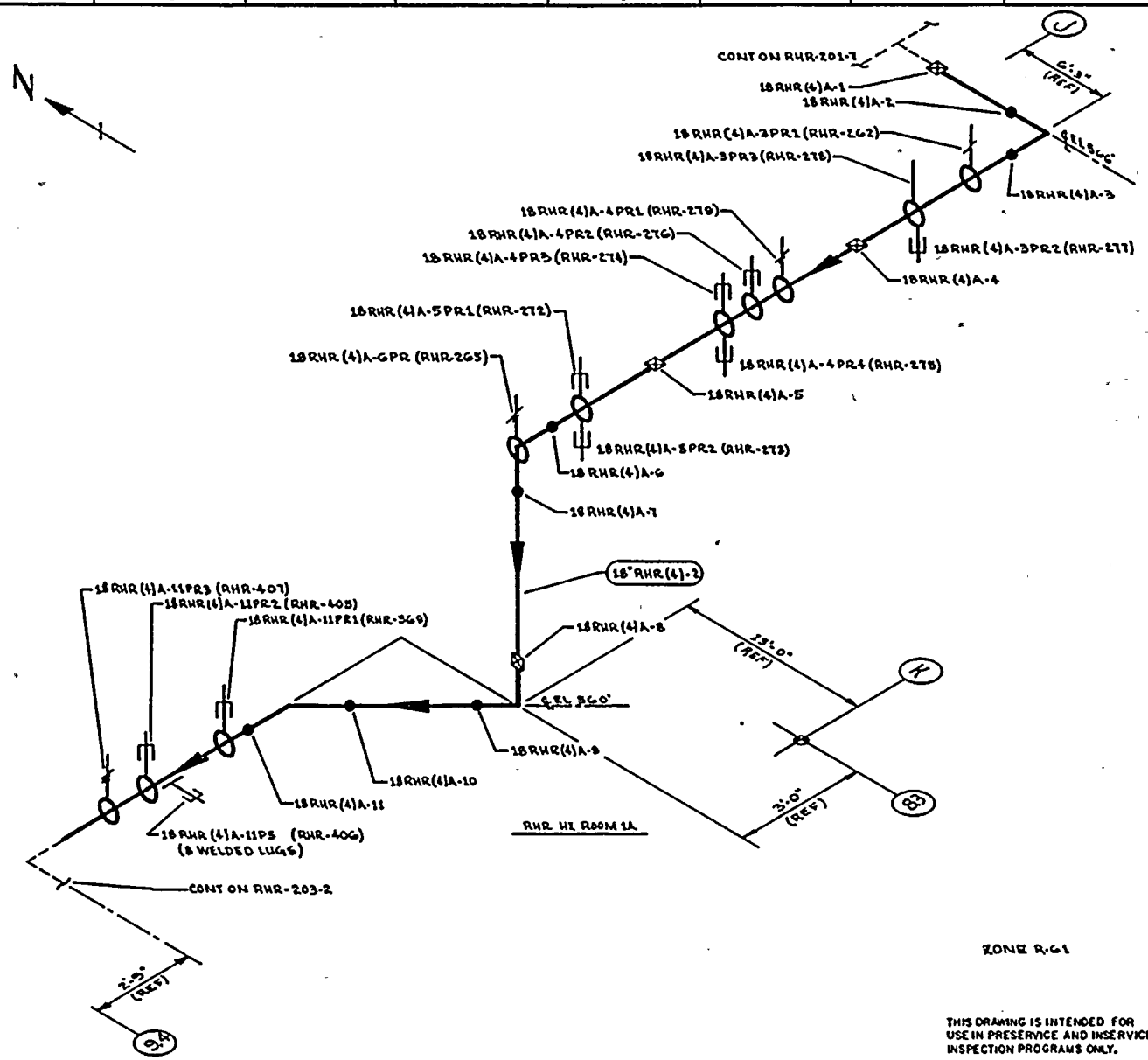
SYSTEM OR COMPONENT NO. 16 RHR(5)-2

DESCRIPTION: CLASS 2 RHR LOOP A-DRYWELL SPRAY SUPPLY

DATE: 1/8/79

REVISION: 0

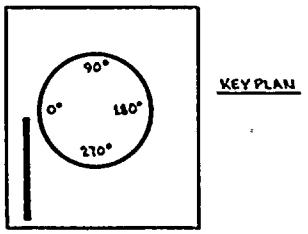
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-202	16RHR(5)A-12	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-202	RHR-V-17A	VALVE BOLTING	C-D			X				QCS&I-002				



NOTES:

REFERENCES:

BOYES & CRAIL ISOMETRICS
RHR-854-1.5 REV 1
RHR-854-1.5H REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (4)-2	18	30	0.438	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-29-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

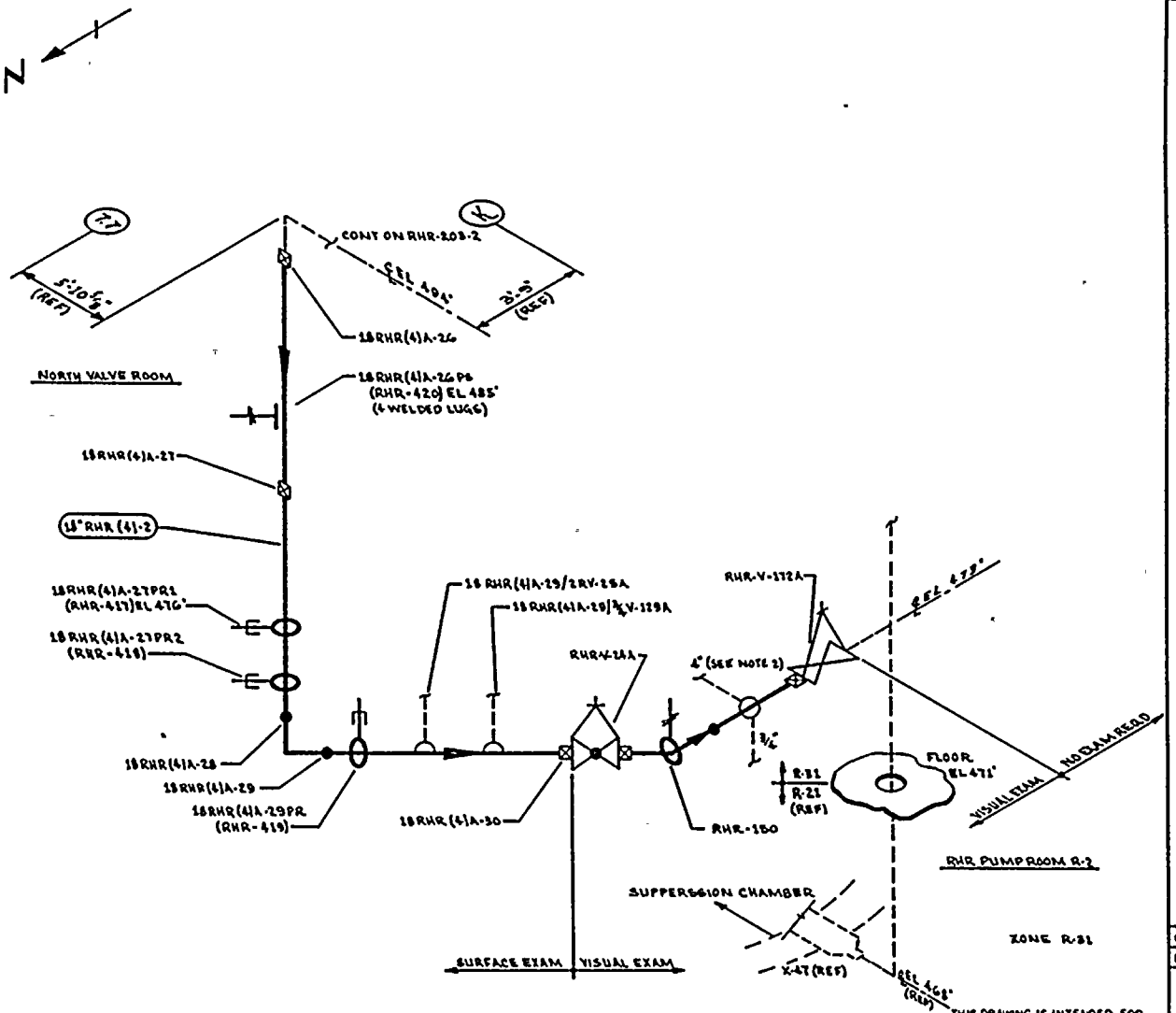
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: GA KUGLER | DRAWN: K.N.A. | DATE: 5-12-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A TEST LINE

DWG NO: RHR-203-1 | REV 0



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

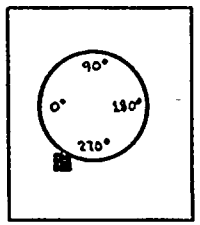
1. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH OUTERMOST NORMALLY CLOSED NUCLEAR VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.
2. EXTEND VISUAL LEAKAGE EXAM THROUGH RHR-V-11A.
3. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMP. THAT ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.

REFERENCES:

BOYEE & CRAIL ISOMETRICS

RHR-854-12.16 REV 2

RHR-854-12.16H REV 0



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18"RHR (41)-2	18	30	0.438	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
1	9-18-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.A. | DATE: 5-15-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:

RHR LOOP A TEST LINE

DWG NO: RHR-203-3 | REV 0

UMP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. 18 "RHR(4)-2

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 RHR LOOP A-TEST LINE

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-203	18RHR(4)A-1	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-3 PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-3PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-3PR3	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-203	18RHR(4)A-4	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	19RHR(4)A-4PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-4PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-4PR3	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-4PR4	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-5	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-5PR1	SNUBBER	C-E-2						X	QCS&I-002				

UNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 2 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. 18 "RHR(4)-2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR LOOP A-TEST LINE REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-203	18RHR(4)A-5PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-6	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-203	18RHR(4)A-6PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-7	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-203	18RHR(4)A-8	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-203	18RHR(4)A-9	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-203	18RHR(4)A-10	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-203	18RHR(4)A-11	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-203	18RHR(4)A-11 PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-11 PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-11 PS/(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. 18 "RHR(4)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A-TEST LINE | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-11 PR3	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-12	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-13	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-14	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-15	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-15 PR1	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-203	18RHR(4)A-15 PR2	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-203	18RHR(4)-16	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-16PR	ANCHOR	C-E-2					X		QCS&I-002				
RHR-203	18RHR(4)A-17	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 6

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. 18 "RHR(4)-2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR LOOP A-TEST LINE REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-203	18RHR(4)A-17PR	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-203	18RHR(4)A-18	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-19	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-20	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-21	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-22	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-23	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-203	18RHR(4)A-23 PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-23 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-23 PR3	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-23 PR4	SNUBBER	C-E-2						X	QCS&I-002				

MIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. 18 "RIIR(4)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RIIR LOOP A-TEST LINE | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-203	18RIIR(4)A-24	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-203	18RIIR(4)A-24PR	SNUBBER	C-E-2						X	QCS&I-002				
RIIR-203	18RIIR(4)A-25	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RIIR-203	18RIIR(4)A-26	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-203	18RIIR(4)A-26 PS/(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RIIR-203	18RIIR(4)A-27	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-203	18RIIR(4)A-27 PR1	SNUBBER	C-E-2						X	QCS&I-002				
RIIR-203	18RIIR(4)A-27 PR2	SNUBBER	C-E-2						X	QCS&I-002				
RIIR-203	18RIIR(4)A-28	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RIIR-203	18RIIR(4)A-29	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. 18 "RHR(4)-2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP A-TEST LINE

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-203	18RHR(4)A-29PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-203	18RHR(4)A-29/ 1RV-25A	THERMAL RELIEF	IWC-2510				X			QCS&I-002				
RHR-203	18RHR(4)A-29/ 3/4V-129A	TEST CONN	IWC-				X			QCS&I-002				
RHR-203	18RHR(4)A-30	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				

VHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL.: BASELINE

SYSTEM OR COMPONENT NO. 18 "RHR(20)-2

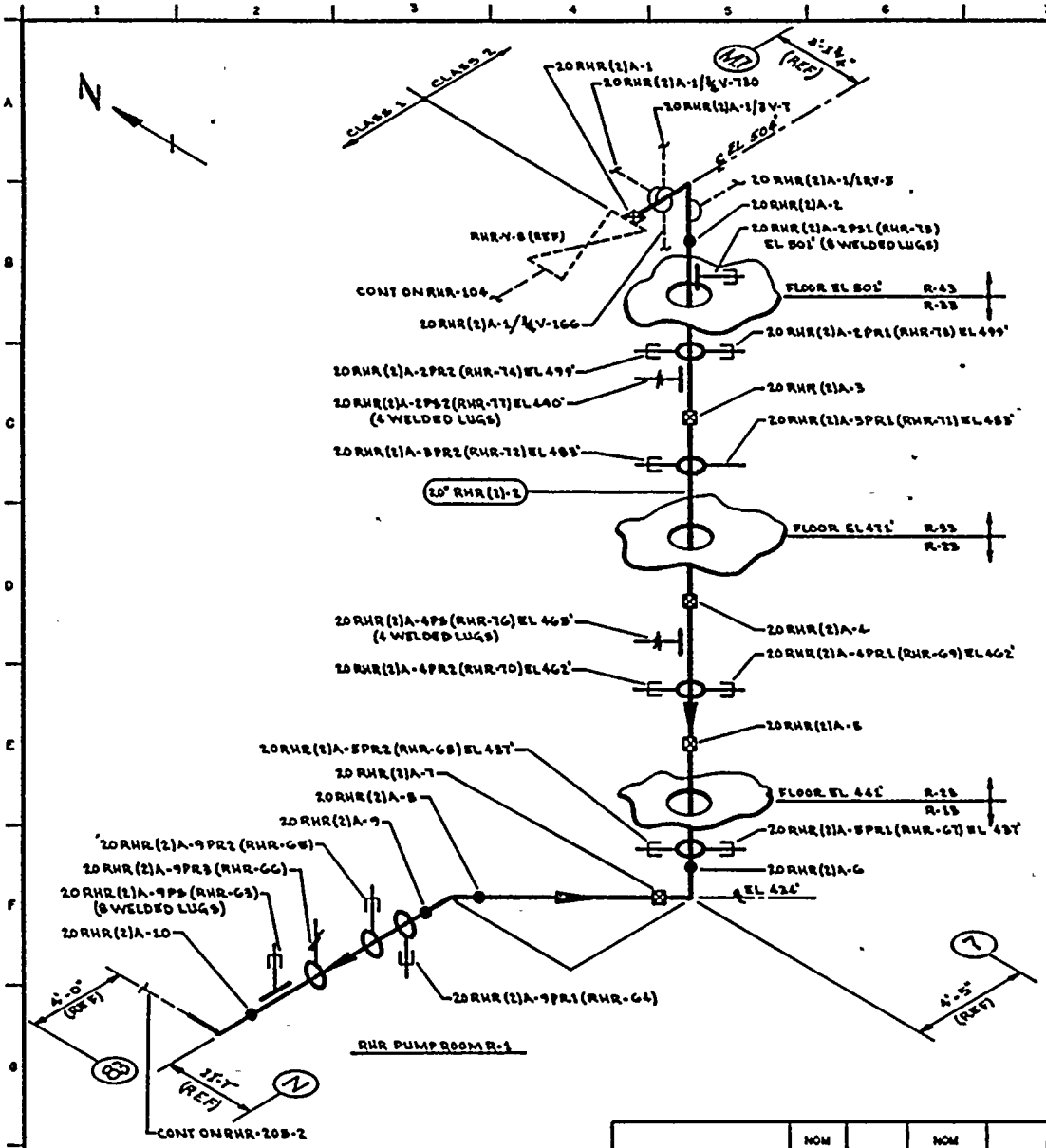
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP A, RCIC STEAM SUPPLY TO RHR HX-1A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-204	RHR-V-122A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-204	18RHR(20)A-1	VALVE TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-204	18RHR(20)A-2	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-204	18RHR(20)A-3	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-204	18RHR(20)A-4	PIPE TO TEE	C-F		X					PTP-1				
							X			QCS&I-002				



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

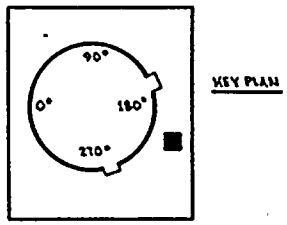
NOTES:

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-875-1.3 REV 1

RHR-875-1.8H REV 1



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: GA KUGLER	DRAWN: K. McA. DATE: 5-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

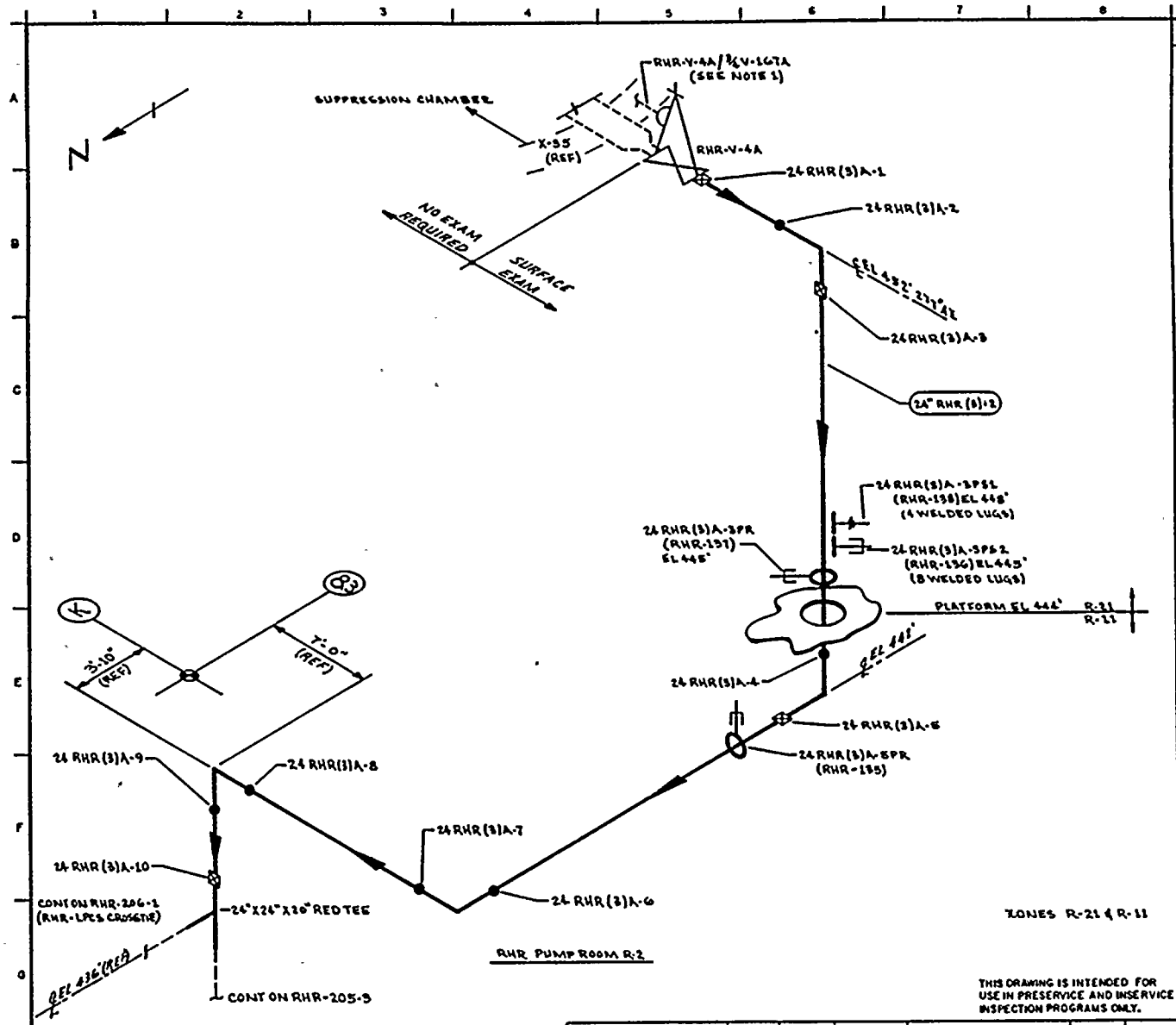
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20" RHR(2)-2	20	STD	0.375	SA 106 GR B	C-S	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR
SHUTDOWN COOLING SUCTION

DWG NO: RHR-205-2 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-29-78	ISSUED FOR USE	KAL	RSK	RJR
A	9-12-78	ISSUED FOR INFORMATION ONLY	KAL	RSK	RJR

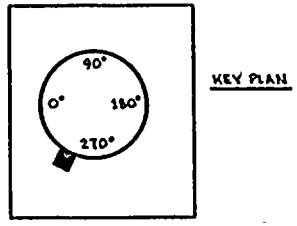


NOTES:

1. THIS IS A ¾" CONNECTION WITH VISUAL EXAM EXTENDING TO ¾" V-16TA.

REFERENCES:

BOVEE & CRAIL ISOMETRICS
RHR-881-1.3 REV 2
RHR-881-1.3H REV 0



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RHR (3)-2	24	STD	0.375	SA-106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12/15/19	ISSUED FOR USE	KNL	MAK	BWR
1	9/12/18	ISSUED FOR INFORMATION ONLY	KNL	MAK	BWR

QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: G.A. KUGLER | DRAWN: K.M.C.L. | DATE: 5-19-20

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP A
SUPPRESSION POOL SUCTION

DWG NO: RHR-205-4- | REV 0

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 9

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. 20 *RHR(2)-2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR SHUTDOWN COOLING SUCTION REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-205	20RHR(2)A-1	VALVE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-205	20RHR(2)A-1/ 3/4V-730	INST CONN	IWC-2510				X			QCS&I-002				
RHR-205	20RHR(2)A-1/ 3/4V-166	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-205	20RHR(2)A-1/ 3V-7	FLUSH CONN	IWC-2510				X			QCS&I-002				
RHR-205	20RHR(2)A-1/ 1RV-5	RELIEF CONN	IWC-2510				X			QCS&I-002				
RHR-205	20RHR(2)A-2	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-205	20RHR(2)A-2PS1 /(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-2PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-2PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-2PS2 /(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 9

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. 20 "RHR(2)-2 | DATE: 1/8/79

PERIOD: HA | DESCRIPTION: CLASS 2 RHR SHUTDOWN COOLING SUCTION | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-205	20RHR(2)A-3	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	20RHR(2)A-3PR1	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-205	20RHR(2)A-3PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-4	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	20RHR(2)A-4PS /(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-4PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-4PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-5	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	20RHR(2)A-5PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-5PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	20RHR(2)A-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. 20 "RHR(2)-2

DATE: 1/8/79

PERIOD: HA

DESCRIPTION: CLASS 2 RHR SHUTDOWN COOLING SUCTION

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-205	20RHR(2)A-8	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	20RHR(2)A-9	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	20RHR(2)A-9PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-9PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-9PR3	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-9PS/(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-10	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	20RHR(2)A-11	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	20RHR(2)A-11/10RHR(2)A-2	PIPE TO WOL	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	10RHR(2)A-1	WOL TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	RHR-V-105	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-205	20RHR(2)A-11PR1	SNUBBER							X	QCS&I-002				

VHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 9

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. 20 "RHR(2)-2 | DATE: 1/8/79

PERIOD: HA | DESCRIPTION: CLASS 2 RHR SHUTDOWN COOLING SUCTION | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-205	20RHR(2)A-11PR2	SPRING HANGER							X	QCS&I-002				
RHR-205	20RHR(2)A-11PR3	SNUBBER							X	QCS&I-002				
RHR-205	20RHR(2)A-11PR4	SNUBBER							X	QCS&I-002				
RHR-205	20RHR(2)A-12	PIPE TO TEE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-205	20RHR(2)A-12PS	WELDED SUPPORT	C-E-1		X					PTP-1				1 WELDED LUG
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-205	20RHR(2)A-13	TEE TO REDUCER	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-205	18RHR(2)A-1	REDUCER TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-205	18RHR(2)A-1PS	ANCHOR	C-E-1		X					PTP-1				1 WELDED PLATE
RHR-205	18RHR(2)A-2	PIPE TO TEE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-205	18RHR(2)A-3	TEE TO VALVE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-205	18RHR(2)A-4	TEE TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 9

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. 10", 20", and 18" RHR(2)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR SHUTDOWN COOLING SUCTION | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-205	18RHR(2)A-4PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-205	18RHR(2)A-5	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	18RHR(2)A-6	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	18RHR(2)A-6PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-205	18RHR(2)A-7	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	RHR-V-67	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-205	RHR-V-6A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-105	18RHR(2)A-8	VALVE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-105	18RHR(2)A-9	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	18RHR(2)A-9PR1	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-205	18RHR(2)A-9PR2	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-205	18RHR(2)A-10	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

HHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. 10", 20", and 18" RHR(2)-2

DATE: 1/8/79

PERIOD: HA

DESCRIPTION: CLASS 2 RHR SHUTDOWN COOLING SUCTION

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-205	18RHR(2)A-11	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	18RHR(2)A-12	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(2)A-1	TEE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(2)A-2	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(2)A-2/ 3/4V-701A	INST CONN	IWC-2510				X			QCS&I-002				
RHR-205	24RHR(2)A-2/ 3/4-702A	INST CONN	IWC-2510				X			QCS&I-002				
RHR-205	24RHR(2)A-3	PIPE TO FLANGE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(2)A-3BD	FLANGE BOLTING	C-D			X				QCS&I-002				24 1½" FULL THRD. STUDS W/NUTS
RHR-205	24RHR(2)A-4	FLANGE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(2)A-5	PIPE TO FLANGE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(2)A-5BD	FLANGE BOLTING	C-D			X				QCS&I-002				24 1½" FULL THRD. STUDS W/NUTS

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 7 of 9

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. 10", 20", and 18" RHR(2)-2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR SHUTDOWN COOLING SUCTION

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-205	24RHR(2)A-6	FLANGE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(2)A-6/ 3/4V-703A	INST. CONN	IWC-2510				X			QCS&I-002				
RHR-205	24RHR(2)A-6PS	RIGID HANGER	C-E-1		X					PTP-1				1 WELDED PIPE
RHR-205	24RHR(2)A-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(2)A-7/ 3V-71A	FLUSH CONN	IWC-2510				X			QCS&I-002				
RHR-205	24RHR(2)A-7/ 3/4V-126A	DRAIN CONN	IWC-2510				X			QCS&I-002				
RHR-205	24RHR(2)A-8	PIPE TO PUMP	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	RHR-V-4A	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-205	RHR-V4A/3/4 V-167A	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-205	24RHR(3)A-1	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(3)A-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of 9

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. 24 RHR(2)-2 & 24 RHR(3)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A-SHUTDOWN COOLING AND S.P. SUCTIONS | REVISION: 0

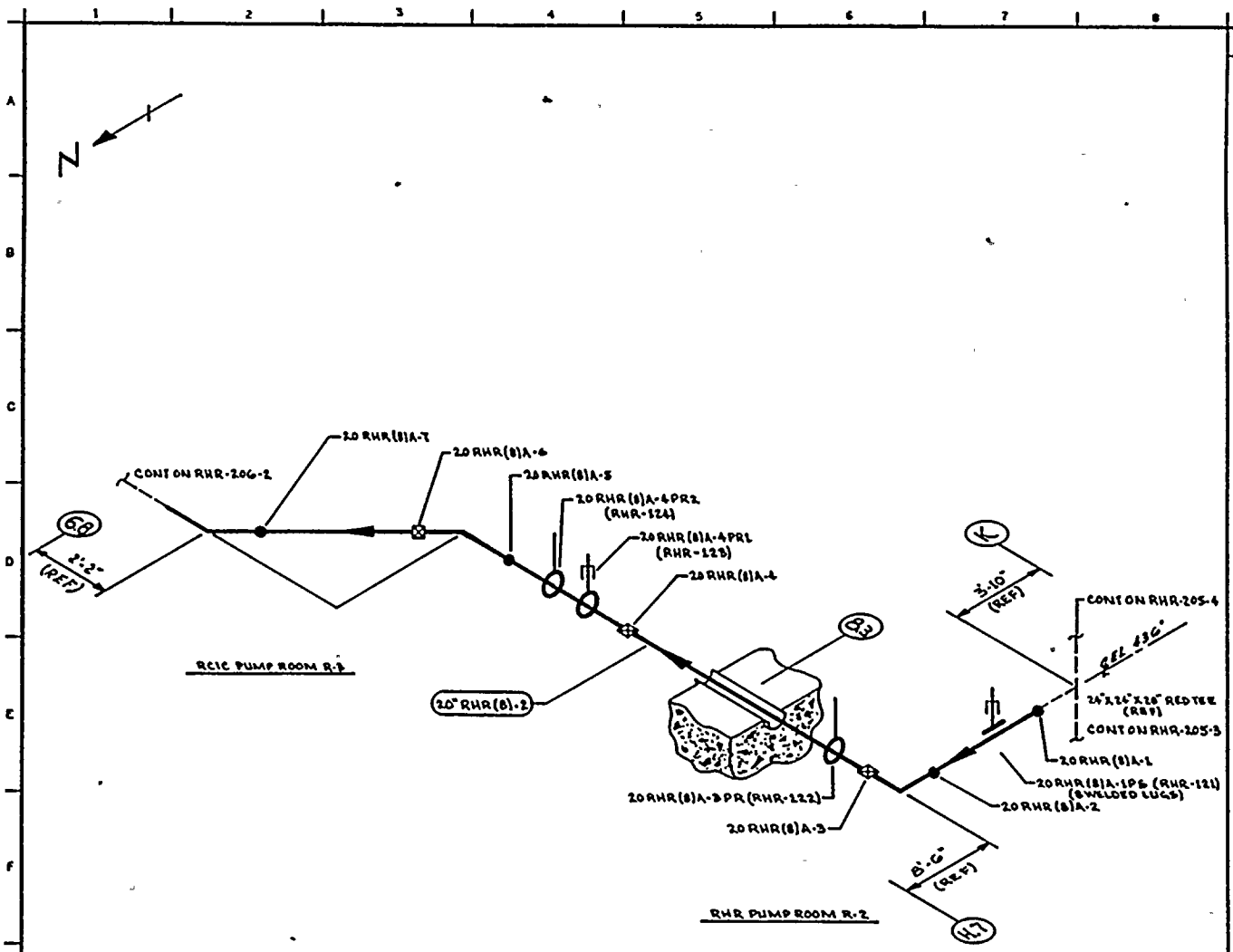
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-205	24RHR(3)A-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(3)A-3PS1 /(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-205	24RHR(3)A-3PS2 /(1-4)	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	24RHR(3)A-3PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	24RHR(3)A-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(3)A-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(3)A-5PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-205	24RHR(3)A-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(3)A-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(3)A-8	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

VRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 9 of 9

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. 24 RHR(2)-2 & 24RHR(3)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP A-SHUTDOWN COOLING AND S.P. SUCTIONS | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-205	24RHR(3)A-9	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-205	24RHR(3)A-10	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				



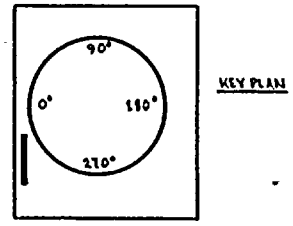
NOTES:

REFERENCED:

BOVER & CRAIL ISOMETRICS

RHR-881-4.7 REV 1

RHR-881-4.7H REV 0



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: G.A. KUGLER	DRAWN: K.M.A.
DATE: 5-22-78	

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
20"RHR(8)-2	20	STD	0.375	SA 106 GR B	CS	NA.

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR-LPCS CROSSTIE

DWG NO: RHR-206-1 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-77	ISSUED FOR USE			
A	9-11-78	ISSUED FOR INFORMATION ONLY			

UNIT- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 4

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. 20" RHR(8)-2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR-LPCS CROSSTIE REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-206	20RHR(8)A-1	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-1PS /(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-3PR	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-206	20RHR(8(A-4	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-4PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-4PR2	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-206	20RHR(8)A-5	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-6	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-7	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. 20" RHR(8)-2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR-LPCS CROSSTIE | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-206	20RHR(8)A-8	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)-A-8PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-8PR2	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-206	20RHR(8)A-9	PIPE TO PIPE	C-F		X			X		PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-9PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-9PS/(1-8)	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-206	20RHR(8)A-9PR2	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-206	20RHR(8)A-10	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-11	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-11PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-12	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

UNIT- 2 PROGRAM PLAN AND SCHEDULE PAGE 3 of 4

INTERVAL.: BASELINE SYSTEM OR COMPONENT NO. 20" RHR(8)-2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR-LPCS CROSSTIE REVISION: 0

FIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-206	20RHR(8)A-13	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-206	20RHR(8)A-13 PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-14	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-206	20RHR(8)A-15	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-206	20RHR(8)A-15 PR1	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-206	20RHR(8)A-15 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-16	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-206	20RHR(8)A-17	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-206	20RHR(8)A-17 PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-17 PR2	RIGID HANGER	C-E-2					X		QCS&I-002				

WHP- 2

INTERVAL: BASELINE / __

PERIOD: NA

PROGRAM PLAN AND SCHEDULE

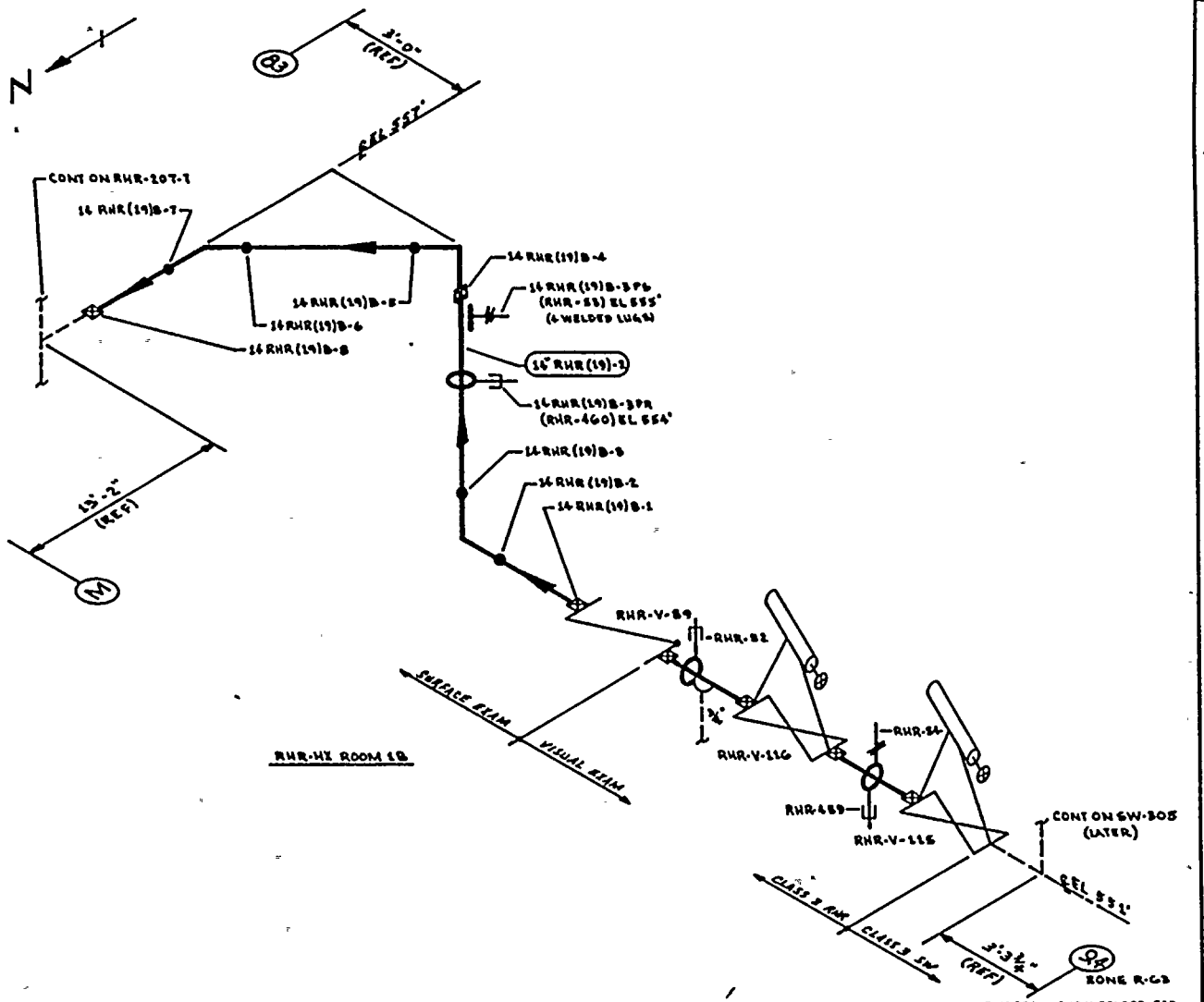
SYSTEM OR COMPONENT NO. 20" RHR(8)-2

DESCRIPTION: CLASS 2 RHR-LPCS CROSSTIE

DATE: 7/27/79

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-206	20RHR(8)A-17 PS/(1-8)	WELDED SUPPORT	C-E-1			X				PTP-1				8 WELDED LUGS
		RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-206	20RHR(8)A-17PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-206	20RHR(8)A-18	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-19	EL TO FLANGE	C-F		X		X			PTP-1 QCS&I-002				
RHR-206	20RHR(8)A-19BD	FLANGE BOLTING	C-D			X				QCS&I-002				24 1½" FULL THRD. STUDS W/NUTS



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

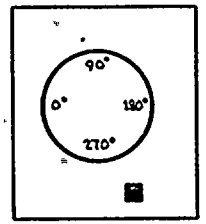
1. PORTIONS OF THIS DRAWING IDENTIFY PIPING & COMPONENTS THAT ARE SUBJECT ONLY TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. FOR BRANCH PIPING 4" DIA OR LESS (CONN SHOWN IN DASHED LINES) EXTEND VISUAL LEAKAGE EXAM THROUGH THE OUTERMOST NORMALLY CLOSED NUCLEAR VALVE OR UNTIL TRANSITION TO INSTRUMENT TUBING, UNLESS OTHERWISE NOTED.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RHR-978-1.4 REV 2

RHR-978-1.4H REV 0



KEY PLAN

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16"RHR(19)-2	14	STD	0.375	SA 106 GR B	CS	NA

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-15-78	ISSUED FOR USE	WNA	[illegible]	[illegible]
A	9-13-78	ISSUED FOR INFORMATION ONLY	WNA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

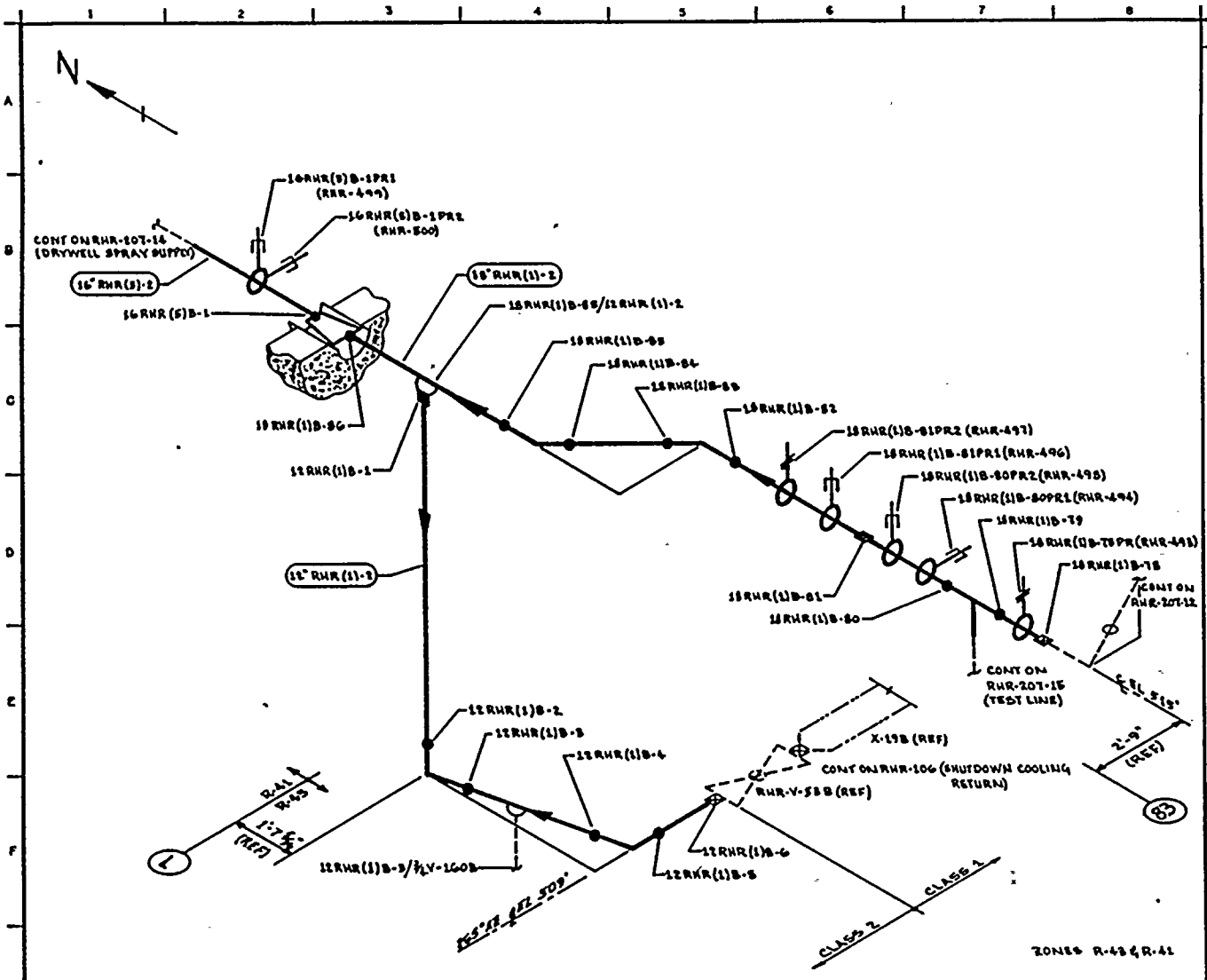
ENGR: G.A. KUGLER | DRAWN: K.M.C.A. | DATE: 6-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SERVICE WATER SUPPLY TO RHR-HX-1B DISCHARGE

DWG NO: RHR-207-8 | REV 0

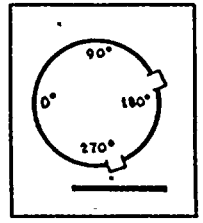


NOTES:

REFERENCED:

BOVER & CRAIL ISOMETRICS

RHR-899-18.19	REV 0
RHR-899-45	REV 0
RHR-899-18.19H	REV 0



KEY PLAN

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K.M.C.A | DATE: 6-13-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

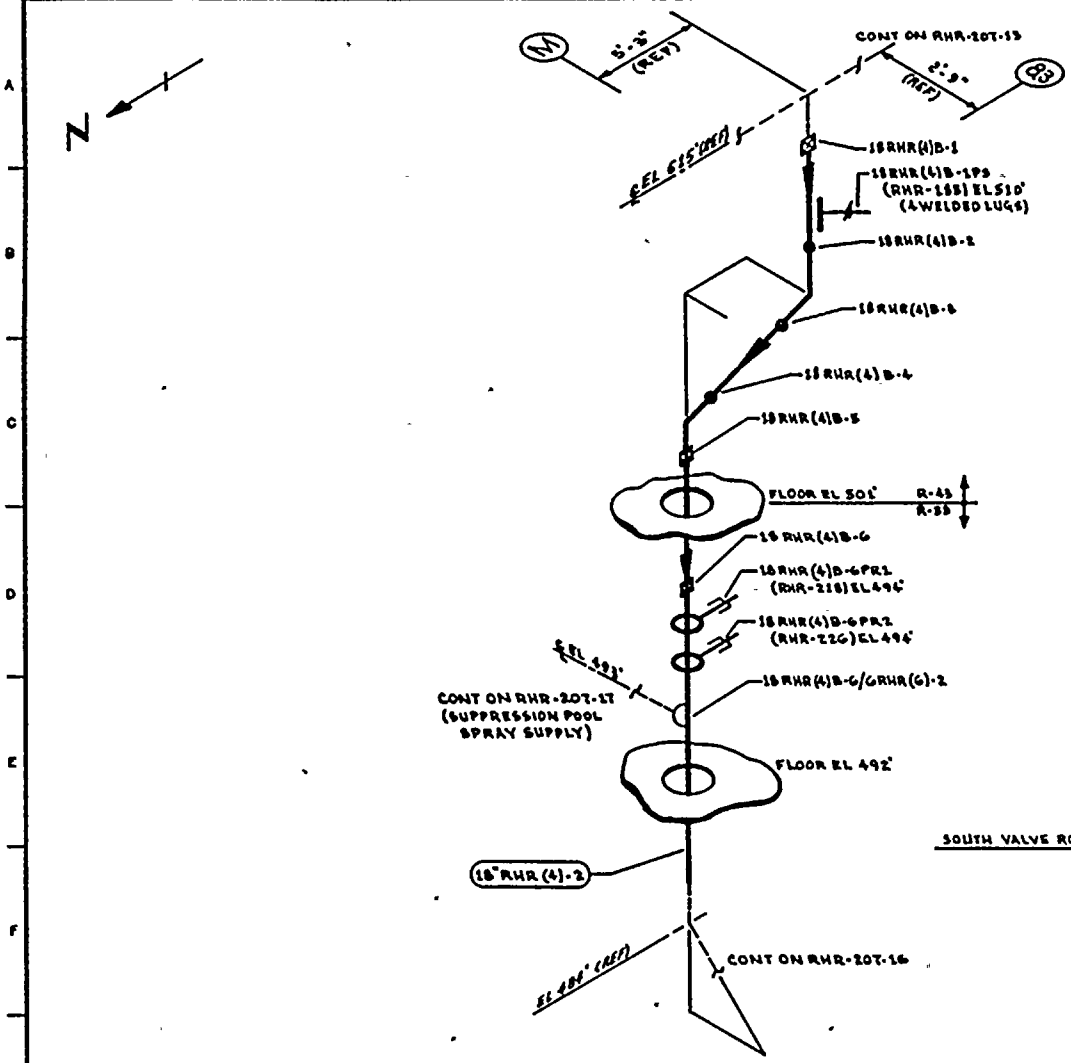
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18"RHR(1)-2	18	30	0.438	SA 106 GR B	CS	NA
16"RHR(S)-2	16	40	0.500	SA 106 GR B	CS	NA
12"RHR(1)-2	12	STD	0.375	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RHR LOOP B SUPPLY FROM RHR-HX-1B & SHUTDOWN COOLING RETURN

DWG NO: RHR-207-15 | REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-27-78	ISSUED FOR USE	K.M.C.A	GKS	DWD
1	9-12-78	ISSUED FOR INFORMATION ONLY	K.M.C.A	GKS	DWD

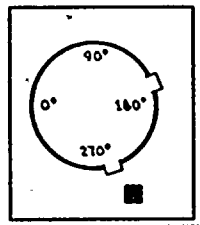


NOTES:

REFERENCES:

BOYER & GRAIL ISOMETRICS

RHR-976-1.6	REV 8
RHR-976-1.6H	REV 1
RHR-899-18.19H	REV 0



KEY PLAN

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. WIXLER | DRAWN: W.M.C.A. | DATE: 6-13-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
18" RHR (4)-2	18	80	0.438	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
TEST LINE

DWG NO: RHR-207-16 | REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-12-78	ISSUED FOR USE	KWL	GAW	RJB
A	9-22-78	ISSUED FOR INFORMATION ONLY	KWL	GAW	RJB

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	14 RHR(1) B-1BU	FLANGE BOLTING	C-D			X				QCS&I-002				20 1/8" FULL THRD STUDS W/NUTS
RHR-207	14 RHR(1) B-1	FLANGE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(1) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(1) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(1) B-4	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-1	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. | DATE: 1/8/79

PERIOD: IIA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-7/ 6 RHR (7)-2	BRANCH CONN	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-7/ 3/4 CAP	CAPPED CONN	IWC-2510					X		QCS&I-002				
RHR-207	18 RHR(1) B-7/3/4 V-704B	INST. CONN	IWC-2510					X		QCS&I-002				
RHR-207	18 RHR(1) B-8	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	RHR-V-31B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-207	18 RHR(1) B-9	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-9/1½ V-84B	CROSSTIE CONN	IWC-2510					X		QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 3 of 29

INTERVAL.: BASELINE SYSTEM OR COMPONENT NO. RHR(1)2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	1B RHR(1) B-10	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	RHR-V-110B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-207	1B RHR(1) B-11	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	1B RHR(1) B-11/3V-72B	FLUSH CONN	IWC-2510				X			QCS&I-002				
RHR-207	1B RHR(1) B-11/3/4 V-705B	INST CONN	IWC-2510				X			QCS&I-002				
RHR-207	1B RHR(1) B-12	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	1B RHR(1) B-13	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	1B RHR(1) B-14	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	1B RHR(1) B-15	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	1B RHR(1) B-16	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

MIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-17	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-18	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-19	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-20	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-21	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-22	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-23	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-24	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-297	18 RHR(1) B-25	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-26	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				

MIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	RHR-V-47B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-207	18 RHR(1) B-27	VALVE TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-28	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-29	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-30	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-31	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-32	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-33	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-34	PIPE TO TEE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-35	TEE TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-36	PIPE TO REDUCER	C-F		X					PTP-1				
							X			QCS&I-002				

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR(1)2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-36/1¼ TE-H004B	INST CONN	IWC-2510				X			QCS&I-002				
RHR-207	20 RHR(1) B-1	REDUCER TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	20 RHR(1) B-2	PIPE TO NOZZLE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	6 RHR(7) B-1	WOL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	6 RHR(7) B-1/3/4 V-144B	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-207	6 RHR(7) B-2	PIPE TO REDUCER	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	6 RHR(7) B-3	REDUCER TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	6 RHR(7) B-3/3/4 V-145B	TEST CONN	IWC-251-				X			QCS&I-002				
RHR-208	6 RHR(7) B-4	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	6 RHR(7) B-5	EL TO RO	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-1	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-6	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	RHR-V-48B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-207	18 RHR(11) B-7	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-8	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(11) B-9	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-10	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-11	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-12	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-13	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(11) B-14	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	20 RHR(1) B-3	NOZZLE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	20 RHR(1) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	20 RHR(1) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	20 RHR(1) B-6	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-37	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-37PS	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-37/1½ CE-N001B	INST CONN	IWC-2510				X			QCS&I-002				
RHR-207	18 RHR(1) B-37/4V-26B	BRANCH CONN	IWC-2510				X			QCS&I-002				
RHR-207	18 RHR(1) B-38	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-39	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-39PR1	RIGID HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-39PR2	RIGID HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-39/3/4 V-81B	DRAIN CONN	IWC-2510				X			QCS&I-002				

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-39/3/4 V-75B	SAMPLE CONN	IWC-2510				X			QCS&I-002				1½" WOL, 3/4" BRANCH
RHR-207	18 RHR(1) B-40	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	RHR-V-3B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-207	18 RHR(1) B-41	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-41PR	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-207	18 RHR(1) B-42	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-43	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-44	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-45	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-46	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 11 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: HA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-47	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-48	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-49	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-49/4V-40	DRAIN CONN	IWC-2510				X			QCS&I-002				
RHR-207	18 RHR(1) B-49PR	RIGID HANGER	C-E-2					X		QCS&I-001				
RHR-207	18 RHR(1) B-49PS	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-50	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-50PS	WELDED SUPPORT	C-E-1		X					PTP-1				1 WELDED LUG
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	14 RHR(19) B-1	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				

VIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)2

DATE: 1/8/79

PERIOD: HA

DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	14 RHR(19) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(19) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(19) B-3PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	14 RHR(19) B-3PS	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	14 RHR(19) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(19) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-297	14 RHR(19) B-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(19) B-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(19) B-8	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-51	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 13 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-51/1¼ TE-N027	INST CONN	IWC-2510				X			QCS&I-002				
RHR-207	18 RHR(1) B-51PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-52	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-52PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-52PS	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-52PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-53	PIPE TO FLANGE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-53BD	FLANGE BOLTING	C-D			X				QCS&I-002				24 1¼" FULL THRD STUDS W/NUTS
RHR-207	18 RHR(1) B-53/3/4 V-706B	INST CONN	IWC-2510				X			QCS&I-002				

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-53/3/4 V-707B	INST CONN	IWC-2510				X			QCS&I-002				
RHR-207	18 RHR(1) B-53PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-54	FLANGE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-54/10 RHR (5)-2	BRANCH CONN	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-55	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-56	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-297	10 RHR(5) B-1	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	10 RHR(5) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	10 RHR(5) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	10 RHR(5) B-3PR1	RIGID HANGER	C-E-2					X		QCS&I-002				

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 15 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	10 RHR(5) B-3PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	10 RHR(5) B-4	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	10 RHR(5) B-4PS	WELDED SUPPORT	C-E-1		X					PTP-1				1 WELDED LUG
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	10 RHR(5) B-5	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	RHR-V-104	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-207	18 RHR(1) B-57	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-57/6 RHR (10)-2	BRANCH CONN	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-57PR1	RIGID HANGER	C-E-2					X		QCS&I-002				
RHR-207	18 RHR(1) B-57PR2	ANCHOR	C-E-2					X		QCS&I-002				
RHR-207	18 RHR(1) B-58	PIPE TO BEND	C-F		X		X			PTP-1 QCS&I-002				

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 16 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-59	BEND TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-60	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-60PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-61	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-62	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-62PS1	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-62PR1	SNUBBER	C-E-2						X	QCS&I-002.				
RHR-207	18 RHR(1) B-62PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-62PS2	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				

HHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-63	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(1) B-5	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	14 RHR(1) B-5/3/4 V-708B	INST CONN	IWC-2510				X			QCS&I-002				
RHR-207	14 RHR(1) B-5/3/4 V-156B	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-207	14 RHR(1) B-6	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-64	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-64PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-64PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	6 RHR(10) B-1	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RIIR(1)2 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 RIIR LOOP B, SUPPLY TO RIIR HX-1B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-207	6 RIIR(10) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RIIR-207	6 RIIR(10) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-207	6 RIIR(10) B-4	PIPE TO FLANGE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-207	6 RIIR(10) B-4/3/4 V-724	INST CONN	IWC-2510				X			QCS&I-002				
RIIR-207	6 RIIR(10) B-4/3/4 V-725	INST CONN	IWC-2510				X			QCS&I-002				
RIIR-207	6 RIIR(10) B-5	FLANGE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-207	6 RIIR(10) B-5PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RIIR-207	6 RIIR(10) B-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RIIR-207	6 RIIR(10) B-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

VHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL.: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	6 RHR(10) B-7PS	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	6 RHR(10) B-8	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	6 RHR(10) B-9	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	6 RHR(10) B-9PS	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	6 RHR(10) B-10	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	6 RHR(10) B-11	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	6 RHR(10) B-12	PIPE TO TEE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	6 RHR(10) B-12/3V-86	FLUSH CONN	IWC-2510				X			QCS&I-002				
RHR-207	6 RHR(10) B-13	TEE TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 20 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	6 RHR(10) B-13PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	6 RHR(10) B-14	PIPE TO VALVE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-65	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-66	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-67	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-68	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-69	PIPE TO EL	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-70	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RHR-207	18 RHR(1) B-70PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-70PR2	SNUBBER	C-E-2						X	QCS&I-002				

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 21 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-70PR3	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-70PR4	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-71	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-72	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-73	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-74	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-74PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-74PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-75	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-76	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-77	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 22 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: IIA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(1) B-78	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-78PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-79	PIPE TO TEE	C-F.		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-80	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-80PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-80PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-81	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(1) B-81PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-81PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(1) B-82	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 23 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	1B RHR(1) B-B3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	1B RHR(1) B-B4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	1B RHR(1) B-B5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	1B RHR(1) B-B5/12 RHR (1)-2	BRANCH CONN	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	1B RHR(1) B-B6	PIPE TO REDUCER	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-1	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-3/4V-1600	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-207	12 RHR(1) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)2

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	12 RHR(1) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	12 RHR(1) B-6	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-1	REDUCER TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-1PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	16 RHR(5) B-1PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	16 RHR(5) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-5PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	16 RHR(5) B-5/3V-63B	FLUSH CONN	IWC-2510				X			QCS&I-002				

HHP- 2

INTERVAL: BASELINE

PERIOD: NA

PROGRAM PLAN AND SCHEDULE

SYSTEM OR COMPONENT NO. RHR(1)2

DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B

DATE: 1/8/79

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	16 RHR(5) B-5/3/4 V-153B	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-207	16 RHR(5) B-6	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	RHR-V-16B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-207	16 RHR(5) B-7	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&K-002				
RHR-207	16 RHR(5) B-7PR	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	16 RHR(5) B-8	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-9	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	16 RHR(5) B-9/3/4 V-609	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-207	16 RHR(5) B-9/3/4V-10B	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-207	16 RHR(5) B-9PR1	SNUBBER	C-E-2						X	QCS&I-002				

IMG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	16 RHR(5) B-9PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	16 RHR(5) B-10	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	RHR-V-17B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-207	18 RHR(4) B-1	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-1PS	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(4) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&K-002				
RHR-207	18 RHR(4) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-6	PIPE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

UHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 27 of 29

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(4) B-6PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(4) B-6PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(4) B-6/6RHR (6)-2	BRANCH CONN	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-7	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-8	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-9	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-10	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-10PS	WELDED SUPPORT	C-E-1											4 WELDED LUGS
		SPRING HANGER	C-E-2		X					PTP-1				
RHR-207	18 RHR(4) B-10/1RV-25B	RELIEF CONN	IWC-2510				X			QCS&I-002				
RHR-207	18 RHR(4) B-10/3/4V-129B	TEST CONN	IWC-2510				X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 28 of 29

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	18 RHR(4) B-11	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-12	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR(4) B-12PR1	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(4) B-12PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-207	18 RHR(4) B-13	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	18 RHR-V-24B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-207	6 RHR(6) B-1	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	6 RHR(6) B-1/3/4V-143B	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-207	6 RHR(6) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	6 RHR(6) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

HHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR(1)2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-207	6 RHR(6) B-4	PIPE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				
RHR-207	RHR-V-27B/ 1/4LOC	STEM LEAKOFF	IWC-2510				X			QCS&I-002				
RHR-207	RHR-V-122B	VALVE BOLTING	C-D			X				QCS&I-002				

VHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR(1)2

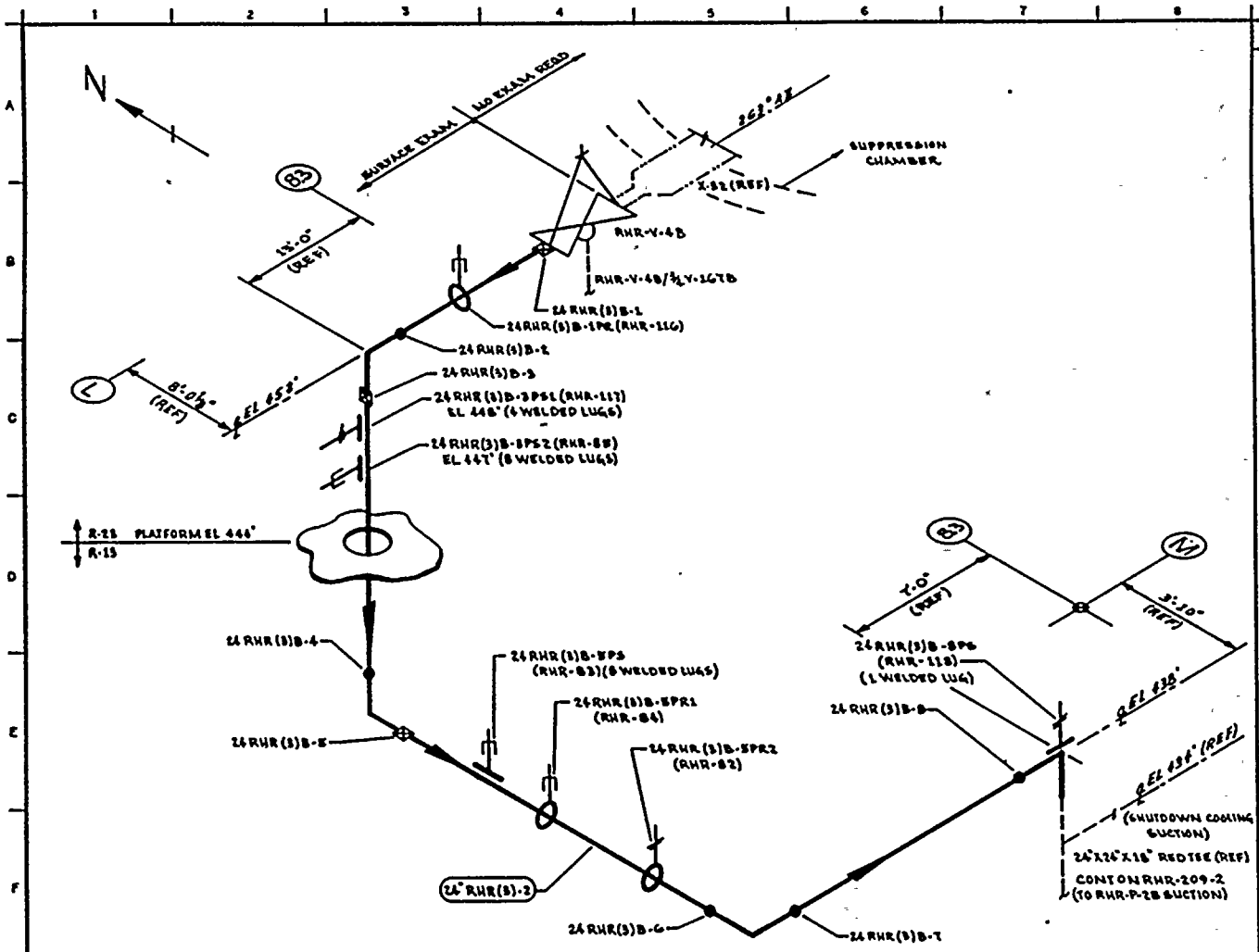
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RIIR LOOP B, SUPPLY TO RIIR HX-1B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-208	18 RIIR(20) B-1	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-208	18 RIIR(20) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RIIR-208	18 RIIR(20) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-208	18 RIIR(20) B-4	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				



RHR PUMP ROOM R-1

ZONES R-23 & R-13

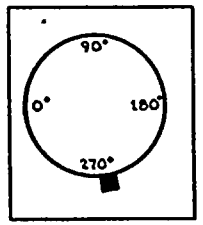
NOTES:

REFERENCED:

BOYES & CRAIL ISOMETRICS

RHR-879-1.3 REV 1

RHR-879-1.3H REV 1



KEY PLAN

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: G.A. KUGLER | DRAWN: K. McA. | DATE: 6-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RHR(S)-2	24	STD	0.375	SA 106 GR B	CS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RHR LOOP B
SUPPRESSION POOL SUCTION

DWG NO: RHR-209-1 | REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-21-78	ISSUED FOR USE			
1	9-12-78	ISSUED FOR INFORMATION ONLY			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 5

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-209	RHR-V-4B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-209	RHR-V-4B/3/4-167B	TEST CONN	IWC-2510				X			QCS&I-002				
RHR-209	24 RHR(3) B-1	VALVE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	24 RHR(3) B-1PR	SNUBBER	C-E-2						X	QCS&I-002				
RHR-209	24 RHR(3) B-2	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	24 RHR(3) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	24 RHR(3) B-3PS1	WELDED SUPPORT	C-E-1		X					PTP-1				4 WELDED LUGS
		SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-209	24 RHR(3) B-3PS2	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-209	24 RHR(3) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 6

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RIIR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RIIR LOOP B, SUPPLY TO RIIR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-209	24 RIIR(3) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-209	24 RIIR(3) B-5PS	WELDED SUPPORT	C-E-1		X					PTP-1				8 WELDED LUGS
		SNUBBER	C-E-2						X	QCS&I-002				
RIIR-209	24 RIIR(3) B-5PR1	SNUBBER	C-E-2						X	QCS&I-002				
RIIR-209	24 RIIR(3) B-5PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
RIIR-209	24 RIIR(3) B-6	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RIIR-209	24 RIIR(3) B-7	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RIIR-209	24 RIIR(3) B-8	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RIIR-209	24 RIIR(3) B-8PS	WELDED SUPPORT	C-E-1		X					PTP-1				1 WELDED LUG
		SPRING HANGER	C-E-2						X	QCS&I-002				
RIIR-209	18 RIIR(2) B-1	TEE TO VALVE	C-F		X		X			PTP-1 QCS&I-002				

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 5

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-209	RHR-V-6B	VALVE BOLTING	C-D			X				QCS&I-002				
RHR-209	18 RHR(2) B-2	VALVE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	18 RHR(2) B-3	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	18 RHR(2) B-3PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-209	18 RHR(2) B-3PR2	SNUBBER	C-E-2						X	QCS&I-002				
RHR-209	18 RHR(2) B-3PR3	SPRING HANGER	C-E-2						X	QCS&I-002				
RHR-209	18 RHR(2) B-4	PIPE TO EL	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	18 RHR(2) B-5	EL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	18 RHR(2) B-6	PIPE TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	24 RHR(2) B-1	EL TO TEE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	24 RHR(2) B-1PS	WELDED SUPPORT	C-E-1		X					PTP-1				1 WELDED LUG

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 5

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR(1)2 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 RHR LOOP B, SUPPLY TO RHR HX-1B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
		SNUBBER	C-E-2						X	QCS&I-002				
RHR-209	24 RHR(2) B-2	TEE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	24 RHR(2) B-2/3/4V-701B	INST CONN	IWC-2510				X			QCS&I-002				
RHR-209	24 RHR(2) B-2/3/4V -702B	INST CONN	IWC-2510				X			QCS&I-002				
RHR-209	24 RHR(2) B-3	PIPE TO FLANGE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	24 RHR(2) B-3BD	FLANGE BOLTING	C-D			X				QCS&I-002				24 1½" FULL THRD. STUDS W/NUTS
RHR-209	24 RHR(2) B-4	FLANGE TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	24 RHR(2) B-5	PIPE TO FLANGE	C-F		X		X			PTP-1 QCS&I-002				
RHR-209	24 RHR(2) B-5BD	FLANGE BOLTING	C-D			X				QCS&I-002				24 1½" FULL THRD. STUDS W/NUTS
RHR-209	24 RHR(2) B-6	FLANGE TO EL	C-F		X		X			PTP-1 QCS&I-002				

UIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RIIR(1)2

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 RIIR LOOP B, SUPPLY TO RHR HX-1B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-209	24 RIIR(2) B-6/3/4V-703B	INST CONN	IWC-2510				X			QCS&I-002				
RIIR-209	24 RIIR(2) B-7	EL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
RIIR-209	24 RIIR(2) B-7/3V-71B	FLUSH CONN	IWC-2510				X			QCS&I-002				
RIIR-209	24 RIIR(2) B-7/3/4V-126B	DRAIN CONN	IWC-2510				X			QCS&I-002				
RIIR-209	24 RIIR(2) B-8	PIPE TO PUMP	C-F		X					PTP-1				
							X			QCS&I-002				

WIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 3

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RIIR-P-2A DATE: 1/8/79

PERIOD: NA DESCRIPTION: RIIR PUMP 2A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RIIR-213	RIIR-P-2AC-1	PUMP CASING CIRC. WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING
RIIR-213	RIIR-P-2AC-2	PUMP CASING CIRC. WELD	C-F				X			QCS&I-002				INACCESSIBLE, SEE DRAWING
RIIR-213	RIIR-P-2AC-3	PUMP CASING CIRC. WELD	C-F				X			QCS&I-002				INACCESSIBLE, SEE DRAWING
RIIR-213	RIIR-P-2AC-4	PUMP CASING CIRC. WELD	C-F		X		X			PTP-1 QCS&I-002				
RIIR-213	RIIR-P-2AC-5	PUMP CASING CIRC. WELD	C-F		X		X			PTP-1 QCS&I-002				
RIIR-213	RIIR-P-2AH-1	PUMP NOZZLE WELD	C-F		X		X			PTP-1 QCS&I-002				
RIIR-213	RIIR-P-2AH-2	PUMP NOZZLE WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING
RIIR-213	RIIR-P-2AH-3	PUMP NOZZLE WELD	C-F		X		X			PTP-1 QCS&I-002				
RIIR-213	RIIR-P-2AL-1	PUMP CASING LONG. WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING
RIIR-213	RIIR-P-2AL-2	PUMP CASING LONG. WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING

WIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 3

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR-P-2A, 2B | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR PUMP 2A, 2B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-213	RHR-P-2AL-3	PUMP CASING LONG. WELD	C-F		X		X			PTP-1 QCS&I-002				
RHR-213	RHR-P-2A-BD	PUMP DISCH. FLNG. BLTNG.	C-D			X				QCS&I-002				20 - 1 1/8" BOLTS W/NUTS
RHR-213	RHR-P-2A-BC	PUMP CASING FLNG. BLTG.	C-D			X				QCS&I-002				48 - 1" BOLTS (TAPPED)
RHR-213	RHR-P-2BC-1	PUMP CASING CIRC. WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-213	RHR-P-2BC-2	PUMP CASING CIRC. WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-213	RHR-P-2BC-3	PUMP CASING CIRC. WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-213	RHR-P-2BC-4	PUMP CASING CIRC. WELD	C-F		X		X			PTP-1 QCS&I-002				
RHR-213	RHR-P-2BC-5	PUMP CASING CIRC. WELD	C-F		X		X			PTP-1 QCS&I-002				
RHR-213	RHR-P-2BH-1	PUMP NOZZLE WELD	C-F		X		X			PTP-1 QCS&I-002				
RHR-213	RHR-P-2BH-2	PUMP NOZZLE WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING

VHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 3

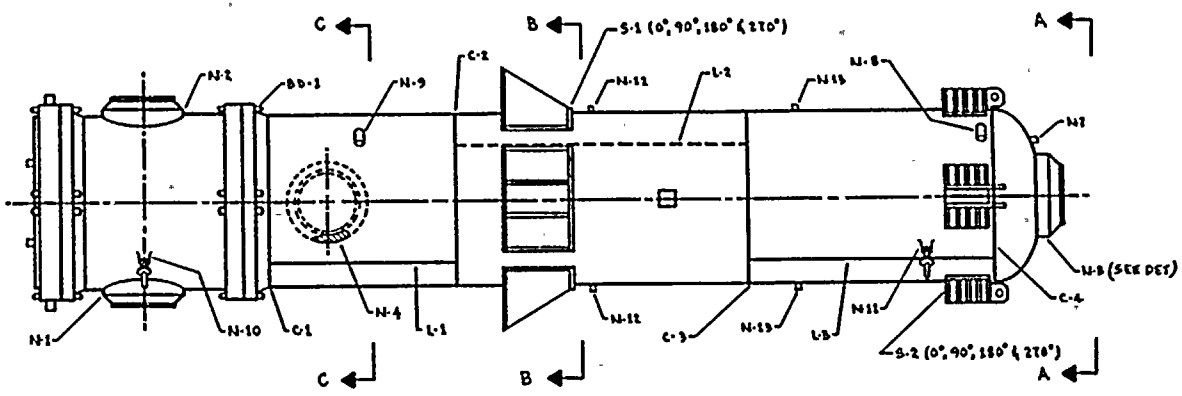
INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHR-P-2B | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR PUMP B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-213	RHR-P-2BN-3	PUMP NOZZLE WELD	C-F		X		X			PTP-1 QCS&I-002				
RHR-213	RHR-P-2BL-1	PUMP CASING LONG. WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-213	RHR-P-2BL-2	PUMP CASING LONG. WELD	C-F				X			QCS&I-002				INACCESSABLE, SEE DRAWING
RHR-213	RHR-P-2BL-3	PUMP CASING LONG. WELD	C-F		X		X			PTP-1 QCS&I-002				
RHR-213	RHR-P-2B-BD	PUMP DISCH. FLNG. BLTG.	C-D			X				QCS&I-002				20 - 1 1/8" BOLTS W/NUTS
RHR-213	RHR-P-2B-BC	PUMP CASING FLNG. BLTG.	C-D			X				QCS&I-002				48 - 1" BOLTS (TAPPED)

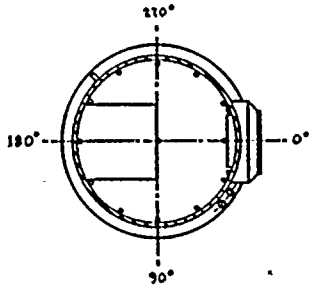
NOTES:

1. WELDS C-2, C-3, L-1, L-2 & L-3 ARE NOT GROSS STRUCTURAL DISCONTINUITIES & DO NOT REQUIRE EXAMINATION.
2. WELD S-2 DOES NOT REQUIRE SURFACE EXAM. IT IS NOT A COMPONENT SUPPORT DURING NORMAL OPERATION.

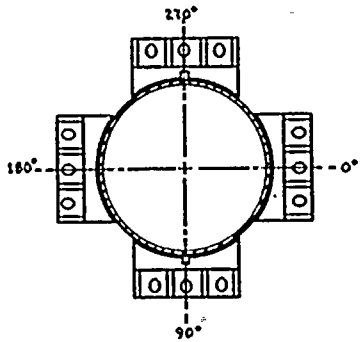


LEGEND

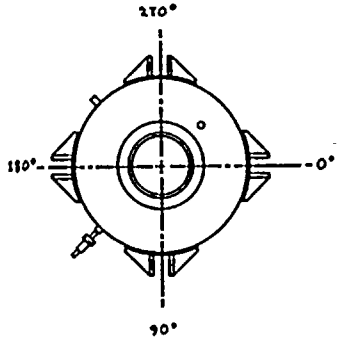
- C CIRCUMFERENTIAL
- L LONGITUDINAL
- S INTERGALLY WELDED SUPPORT
- BD BOLTING



SECTION C-C

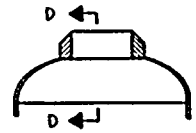


SECTION B-B



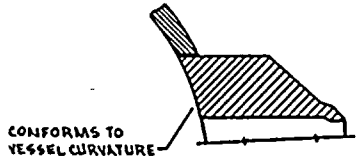
SECTION A-A

	NOM DIA	NOM WALL THK	MATERIAL SPECIFICATION	CAL BLOCK NO
SHELL	58"	1.0	SA 516 GR 70	UT-42
NOZZLE	20"	3.75	SA 105 GR II	UT-43



DETAIL

NOZZLE WELD (TYP N-3 (N-4)



SECTION D-D

SCALE

2" = 5'-0"

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2

WELD & COMPONENT IDENTIFICATION DIAGRAM RHR HEAT EXCHANGER

ENGINEER T HOYLE

DRAWN K. McANDREW

DATE 1-8-79

DWG NO RHR-214

REVO

NO	DATE	REVISION	BY	CHKD	APPVD
0	1/8/79	ISSUED FOR USE	KMA	[illegible]	[illegible]

HHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 1 of 2

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHR-HX-1A

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHR HEAT EXCHANGER - 1A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-214	AC-1	FLANGE TO SHELL CIRC. WELD	C-A	X	X					UTP-25 PTP-1	UT-42			
RHR-214	AC-4	SHELL TO HEAD CIRC. WELD	C-A	X	X					UTP-30 PTP-1	UT-42			
RHR-214	AN-3	INLET NOZZLE TO SHELL WELD	C-B	X	X					UTP-27 PTP-1	UT-43			
RHR-214	AN-4	OUTLET NOZZLE TO SHELL WELD	C-B	X	X					UTP-27 PTP-1	UT-43			
RHR-214	AS-1	HEAT EXCHANGER SUPPORT WELD	C-C		X					PTP-1				4 WELDED SUPPORTS (0^{o}, 90^{o}, 180^{o}, 270^{o})
RHR-214	ABD-1	FLANGE BOLTING	C-D			X				QCS&I-002				60-1¼"x STUDS AND NUTS
RHR-214	BC-1	FLANGE TO SHELL CIRC. WELD	C-A	X	X					UTP-25 PTP-1	UT-42			
RHR-214	BC-4	SHELL TO HEAD CIRC. WELD	C-A	X	X					UTP-30 PTP-1	UT-42			
RHR-214	BN-3	INLET NOZZLE TO SHELL WELD	C-B	X	X					UTP-27 PTP-1	UT-43			
RHR-214	BN-4	OUTLET NOZZLE TO SHELL WELD	C-B	X	X					UTP-27 PTP-1	UT-43			

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 2 of 2

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RHR-HX-1B DATE: 1/8/79

PERIOD: NA DESCRIPTION: RHR HEAT EXCHANGER - 1B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHR-214	BS-1	HEAT EXCHANGER SUPPORT WELD	C-C		X					PTP-1				4 WELDED SUPPORTS • (0^{o}, 90^{o}, 180^{o}, 270^{o})
RHR-214	BBD-1	FLANGE BOLTING	C-D			X				QCS&I-002				60-1¼"x STUDS AND NUTS

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-1	NOZZ TO TRANSITION	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-104			
MS-101	26MS(1)A-2	TRANSITION TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-3	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-3LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-3LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-4LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-4LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-4	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			

VIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-4PR	PWS												NOTE 1
MS-101	26MS(1)A-4/ 2MS(12)-4	HEAD VENT CONN	B-J		X		X			PTP-1 QCS&I-002				
MS-101	26MS(1)A-5	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-5PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10				
					X					PTP-1				
		HANGER	B-K-2			X				QCS&I-002				
MS-101	26MS(1)A-5PR1	PWS												NOTE 1
MS-101	26MS(1)A-5PR2	SNUBBER	B-K-2				X			QCS&I-002				
MS-101	26MS(1)A-5PR3	SNUBBER	B-K-2				X			QCS&I-002				
MS-101	26MS(1)A-6	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-6LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-6LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-7LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-7LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-6PR	SNUBBER	B-K-2						X	QCS&I-002				
MS-101	26MS(1)A-7	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-7/ 8MSR-4A	PIPE TO SHL	B-J	X						UTP-10				
					X					PTP-1				
MS-101	8MSR-4A1	SHL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-101	8MSR-4A2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-101	8MSR-4A-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MS-RV-4A	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MS-RV-4A	VALVE BODY	B-M-2					X		QCS&I-002				

UMP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-7PR1	PHS												NOTE 1
MS-101	26MS(1)A-7/ 8MSR-3A	PIPE TO SHL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	8MSR-3A1	SHL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-101	8MSR-3A2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-101	8MSR-3A-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MA-RV-3A	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MS-RV-3A	VALVE BODY	B-M-2					X		QCS&I-002				
MS-101	26MS(1)A-7/ 8MSR-2A	PIPE TO SHL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	8MSR-2A1	SHL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-101	8MSR-2A2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-101	8MSR-2A-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				

UNIT- 2 PROGRAM PLAN AND SCHEDULE PAGE 5 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. HS(1)-4 DATE: 1/8/79

PERIOD: IIA DESCRIPTION: CLASS 1 MAIN STEAM LINE A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	MS-RV-2A	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MR-RV-2A	VALVE BODY	B-M-2					X		QCS&I-002				
MS-101	26MS(1)A-7PR2	PHS												NOTE 1
MS-101	26MS(1)A-7/ 8MSR-1A	PIPE TO SHL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	8MSR-1A1	SHL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-101	8MSR-1A2	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-101	8MSR-1A-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MS-RV-1A	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MS-RV-1A	VALVE BODY	B-M-2					X		QCS&I-002				
MS-101	26MS(1)A-8	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-8LD1	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 10

INTERVAL: BASELINE / | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-8LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-9LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-9LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-9	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-9PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-101	26MS(1)A-9PR2	PWS												NOTE 1
MS-101	26MS(1)A-9A	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-9PR3	SNUBBER	B-K-2						X	QCS&I-002				
MS-101	26MS(1)A-10	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-10/ 3/4 D006	INSTR CONN	B-P				X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 6a of 10

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 7/27/79.

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE A

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-10/ 3/4 D008	INSTR CONN	B-P				X			QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-10/ 3/4 D007	INSTR CONN	B-P				X			QCS&I-002				
MS-101	26MS(1)A-10/ 3/4 D009	INSTR CONN	B-P				X			QCS&I-002				
MS-101	26MS(1)A-11	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-11PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10	UT-4			
					X					PTP-1				
		HANGER	B-K-2						X	QCS&I-002				
MS-101	26MS(1)A-11PR	PHS												NOTE 1
MS-101	26MS(1)A-12	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-12LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-12LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	26MS(1)A-13LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 8 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-13LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-13	EL TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-13LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-13LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-14LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-14LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-14	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-101	26MS(1)A-14PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-101	26MS(1)A-14PR2	SNUBBER	B-K-2						X	QCS&I-002				

MHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 9 of 10

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	26MS(1)A-14PR3	PHS												NOTE 1
MS-101	26MS(1)A-15	PIPE TO VALVE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	MS-V-22A/ 2MS(9)-4	DRAIN CONN	B-J		X					PTP-1				
MS-101	MS-V-22A/ 3/4 LOC	LEAK OFF CONN	B-P		.		X			QCS&I-002				
MS-101	MS-V-22A	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MS-V-22A	VALVE BODY	B-M-2					X		QCS&I-002				
MS-101	26MS(1)A-16	VALVE TO PENE.	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	MS FLUED HEAD A	FLUED HEAD WELD	B-K-1	X						UTP-10	UT-40			
					X					PTP-1				
MS-101	26MS(1)A-17	PENE. TO VALVE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	MS-V-28/ 2MS(9)-4	DRAIN CONN	B-J		X					PTP-1				

a support

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 10 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-101	MS-V-28A/ 3/4 LOC	LEAK OFF CONN	B-P				X			QCS&I-002				
MS-101	MS-V-28A	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-101	MS-V-28A	VALVE BODY	B-M-2					X		QCS&I-002				

VHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL:- BASELINE

SYSTEM OR COMPONENT NO. MS-(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-102	26MS(1)B-1	NOZZ TO TRANSITION	B-J	X	X	X				UTP-10 PTP-1 QCS&I-002	UT-104			
MS-102	26MS(1)B-2	TRANSITION TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-102	26MS(1)B-3	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-102	26MS(1)B-3LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-102	26MS(1)B-3LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-102	26MS(1)B-4LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-102	26MS(1)B-4LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-102	26MS(1)B-4	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 11

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-102	26MS(1)B-4PR	PWS												NOTE 1
MS-102	26MS(1)B-5	PIPE TO PIPE	B-J	X						UTP-10				
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-5PS/ (1 thru 4)	4 WELDED LUGS (NB-1)	B-K-1	X						UTP-10	UT-4			
					X					PTP-1				
		HANGER	B-K-2					X		QCS&I-002				
MS-102	26MS(1)B-5PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-102	26MS(1)B-5PR2	SNUBBER	B-K-2						X	QCS&I-002				
MS-102	26MS(1)B-5PR3	PWS												NOTE 1
MS-102	26MS(1)B-5/ 10RC1C(12)-4	PIPE TO SHL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-6	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-6LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-6LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

MHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS-(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-102	26MS(1)B-7LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-7LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-7	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-8	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-8LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-8LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-9LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-9LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 11

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-102	26MS(1)B-9	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-9PR1	WHIP RESTRAINT PHS												NOTE 1
MS-102	26MS(1)B-9PR2	SNUBBER	B-K-2						X	QCS&I-002				
MS-102	26MS(1)B-9/ 8MSR-5B	PIPE TO SHL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	8MSR-5B1	SHL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-102	8MSR-5B2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-102	8MSR-5B-2BD	FLANGE BOLTING	B-G-2						X	QCS&I-002				
MS-102	MS-RV-5B	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-102	MS-RV-5B	VALVE BODY	B-M-2					X		QCS&I-002				
MS-102	26MS(1)B-9/ 8MSR-4B	PIPE TO SHL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 11

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. HS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HS-102	8HSR-4B1	SWL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
HS-102	8HSR-4B2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
HS-102	8HSR-4B-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
HS-102	HS-RV-4B	VALVE BOLTING	B-G-2			X				QCS&I-002				
HS-102	HS-RV-4B	VALVE BODY	B-M-2						X	QCS&I-002				
HS-102	26HS(1)B-9PR3	PIPE HANGER	B-K-2					X		QCS&I-002				
HS-102	26HS(1)B-9/ 8HSR-3B	PIPE TO SWL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-102	8HSR-3B1	SWL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
HS-102	8HSR-3B2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
HS-102	8HSR-3B-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 11

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-102	MS-RV-3B	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-102	MS-RV-3B	VALVE BODY	B-M-2					X		QCS&I-002				
MS-102	26MS(1)B-9/ 8MSR-2B	PIPE TO SWL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	8MSR-2B1	SWL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-102	8MSR-2B2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-102	8MSR-1B-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-102	8MSR-2B-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-102	MS-RV-2B	BONNET BOLTING	B-G-2			X				QCS&I-002				
MS-102	MS-RV-2B	VALVE BODY	B-M-2					X		QCS&I-002				
MS-102	26MS(1)B-9/ 8MSR-1B	PIPE TO SWL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	8MSR-1B1	SWL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				

UNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 11

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-102	8MSR-1B2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-102	8MSR-1B-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-102	MS-RV-1B	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-102	MS-RV-1B	VALVE BODY	B-M-2					X		QCS&I-002				
MS-102	26MS(1)B-9PR4	PWS												NOTE 1
MS-102	26MS(1)B-10	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-10LD1	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-10LD(	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-11LU1	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-11LU(	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of 11

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-102	26MS(1)B-11	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-11PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-102	26MS(1)B-11PR2	PWS												NOTE 1
MS-102	26MS(1)B-11PR3	SNUBBER	B-K-2						X	QCS&I-002				
MS-102	26MS(1)B-12	PIPE TO PIPE	B-J	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-12/ 3/4 D006	INSTR CONN	B-P				X			QCS&I-002				
MS-102	26MS(1)B-12/ 3/4 D008	INSTR CONN	B-P				X			QCS&I-002				
MS-102	26MS(1)B-12 3/4 D007	INSTR CONN	B-P				X			QCS&I-002				
MS-102	26MS(1)B-12/ 3/4 D009	INSTR CONN	B-P				X			QCS&I-002				
MS-102	26MS(1)B-13	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-13PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10	UT-4			
					X					PTP-1				

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 9 of 11

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS-(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	MT-1	VT-2	MT-3	MT-4			REQUIREMENTS	YEAR OF INTERVAL	
		HANGER	B-K-1						X	QCS&I-002				
MS-102	26MS(1)B-13PR	PWS												NOTE 1
MS-102	26MS(1)B-14	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-14LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-14LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-15LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-15LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-15	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	26MS(1)B-15PRI	SNUBBER	B-K-2						X	QCS&I-002				
MS-102	26MS(1)B-15PR2	SNUBBER	B-K-2						X	QCS&I-002				

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-102	26MS(1)B-15PR3	PWS												NOTE 1
MS-102	26MS(1)B-16	PIPE TO VALVE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	MS-V-22B/ 2MS(9)-4	DRAIN CONN	B-J		X					PTP-1				
MS-102	MS-V-22B/ 3/4 LOC	LEAK OFF CONN	B-P				X			QCS&I-002				
MS-102	MS-V-22B	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-102	MS-V-22B	VALVE BODY	B-G-2					X		QCS&I-002				
MS-102	26MS(1)B-17	VALVE TO PENE.	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	MS FLUED HEAD B	FLUED HEAD WELD	B-K-1	X						UTP-10	UT-40			
					X					PTP-1				
MS-102	26MS(1)B-18	PENE. TO VALVE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-102	MS-V-28B/ 2MS(9)-4	DRAIN CONN	B-J		X					PTP-1				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 11 of 11

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-102	MS-V-28B/ 3/4 LOC	LEAK OFF CONN	B-P				X			QCS&I-002				
MS-102	MS-V-28B	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-102	MS-V-28B	VALVE BODY	B-M-2					X		QCS&I-002				

NNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS-(1)-4 DATE: 7/27/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE C REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	26MS(1)C-1	NOZZ TO TRANSITION	B-J	X						UTP-10	UT-104			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-2	TRANSITION TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-3	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-3LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-3LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-4LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-4LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-4	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. HS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HS-103	26HS(1)C-4PR	PHS												NOTE 1
HS-103	26HS(1)C-5	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-103	26HS(1)C-5PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10	UT-4			
					X					PTP-1				
		HANGER	B-K-2						X	QCS&I-002				
HS-103	26HS(1)C-5PR1	SNUBBER	B-K-2						X	QCS&I-002				
HS-103	26HS(1)C-5PR2	SNUBBER	B-K-2						X	QCS&I-002				
HS-103	26HS(1)C-5PR3	PHS												NOTE 1
HS-103	26HS(1)C-6	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-103	26HS(1)C-6LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-103	26HS(1)C-6LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-103	26HS(1)C-7LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

VHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

FIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	26MS(1)C-7LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-7	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-8	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-8LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-8LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-9LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-9LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-9	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	26MS(1)C-9PR1	PWS												NOTE 1
MS-103	26MS(1)C-9PR2	SNUBBER							X	QCS&I-002				
MS-103	26MS(1)C-9/ 8MSR-5C	PIPE TO SWL	B-J	X	X					UTP-10 PTP-1	UT-4			
MS-103	8MSR-5C1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-103	8MSR-5C2	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-103	8MSR-5C-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-RV-5C	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-RV-5C	VALVE BODY	B-M-2					X		QCS&I-002				
MS-103	26MS(1)C-9/ 8MSR-4C	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-103	8MSR-4C1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-103	8MSR-4C2	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 5 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS-(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	8MSR-4C-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-RV-4C	VALVE BOLTING	B-G-2		X					QCS&I-002				
MS-103	MS-RV-4C	VALVE BODY	B-M-2				X			QCS&I-002				
MS-103	26MS(1)C-9/ 8MSR-3C	PIPE TO SWL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	8MSR-3C1	SWL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-103	8MSR-3C2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-103	8MSR-3C-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-RV-3C	VALVE BOLTING	B-G-2		X					QCS&I-002				
MS-103	MS-RV-3C	VALVE BODY	B-M-2				X			QCS&I-002				
MS-103	26MS(1)C-9PR3	PIPE HANGER	B-K-2				X			QCS&I-002				
MS-103	26MS(1)C-9/ 8MSR-2C	PIPE TO SWL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	8MSR-2C1	SWL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 6 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS-(1)-4 DATE: BASELINE

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	8MSR-2C2	PIPE TO FLANGE	B-J	X						UTP-10	UT-23			
					X					PTP-1				
							X			QCS&I-002				
MS-103	8MSR-2C-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-RV-2C	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-RV-2C	VALVE BODY	B-M-2					X		QCS&I-002				
MS-103	26MS(1)C-9/ 8MSR-1C	PIPE TO SHL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	8MSR-1C1	SHL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
MS-103	8MSR-1C2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-10				
							X			QCS&I-002				
MS-103	8MSR-1C-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-RV-1C	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-RV-1C	VALVE BODY	B-M-2					X		QCS&I-002				
MS-103	26MS(1)C-9PR4	PWS												NOTE 1
MS-103	26MS(1)C-10	PIPE TO ELL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
								X		QCS&I-002				

UNIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS-(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	26MS(1)C-10LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-10LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-11LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-11LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-11	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-11PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-103	26MS(1)C-11PR2	PWS												NOTE 1
MS-103	26MS(1)C-11PR3	SNUBBER	B-K-2						X	QCS&I-002				
MS-103	26MS(1)C-12	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	26MS(1)C-12/ 3/4 D006	INSTR CONN	B-P				X			QCS&I-002				
MS-103	26MS(1)C-12/ 3/4 D008	INSTR CONN	B-P				X			QCS&I-002				
MS-103	26MS(1)C-13/ 3/4 D007	INSTR CONN	B-P				X			QCS&I-002				
MS-103	26MS(1)C-12/ 3/4 D009	INSTR CONN	B-P				X			QCS&I-002				
MS-103	26MS(1)C-13	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-13PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10	UT-4			
					X					PTP-1				
		HANGER	B-K-2						X	QCS&I-002				
MS-103	26MS(1)C-13PR	PHS												NOTE 1
MS-103	26MS(1)C-14	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-14LD1	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 9 of 10

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. MS-(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE C | REVISION: 0

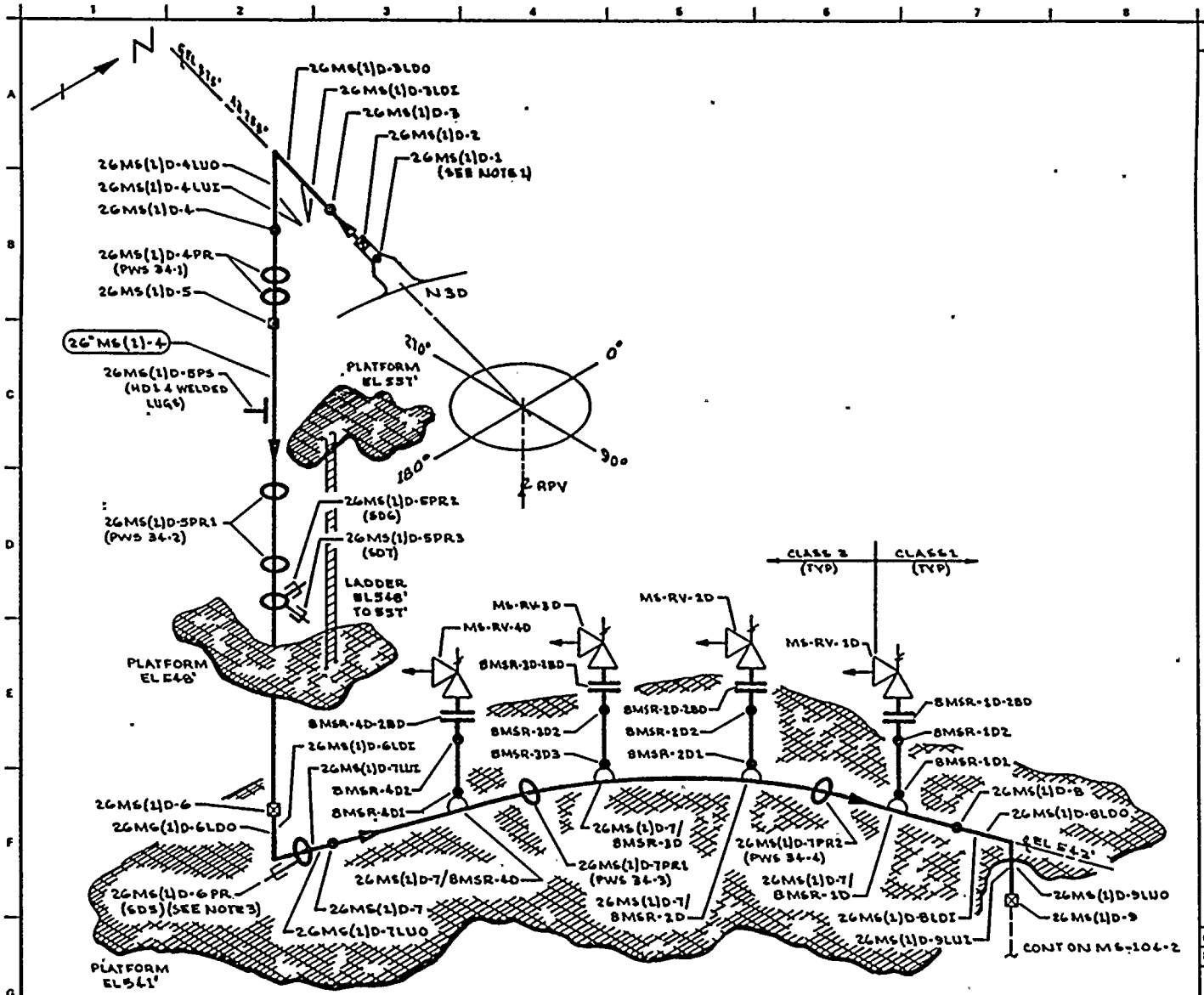
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	26MS(1)C-14LD0	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-15LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-15LU0	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-15	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	26MS(1)C-15PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-103	26MS(1)C-15PR2	SNUBBER	B-K-2						X	QCS&I-002				
MS-103	26MS(1)C-15PR3	PWS												NOTE 1
MS-103	26MS(1)C-16	PIPE TO VALVE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	MS-V-22C/ 2MS(9)4	DRAIN CONN	B-J		X					PTP-1				
MS-103	MS-V-22C/ 3/4 LOC	LEAK OFF CONN	B-P				X			QCS&I-002				

HHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 10 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS-(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	MS-V-22C	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-V-22C	VALVE BODY	B-M-2					X		QCS&I-002				
MS-103	26MS(1)C-17	VALVE TO PENE.	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	MS FLUED HEAD C	FLUED HEAD WELD	B-K-1	X						UTP-10	UT-40			
					X					PTP-1				
MS-103	26MS(1)C-18	PENE. TO VALVE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-103	MS-V-28C/ 2MS(9)-4	DRAIN CONN	B-J		X					PTP-1				
MS-103	MS-V-28C/ 3/4 LOC	LEAK OFF CONN	B-P				X			QCS&I-002				
MS-103	MS-V-28C	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-103	MS-V-28C	VALVE BODY	B-M-2					X		QCS&I-002				



NOTES:

1. WELD 26MS(1)D-1 UTILIZES CAL BLOCK UT-104.
2. ACCESS TO WELDS 26MS(1)D-1 THRU 26MS(1)D-5 REQUIRES TEMPORARY SCAFFOLDING.
3. ACCESS TO WELD 26MS(1)D-7 REQUIRES REMOVAL OF 26MS(1)D-6PR.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 992	131 C 8048
131 C 7734	131 C 8030
131 C 8403	131 C 8031
131 C 8501	

CBI NUCLEAR CO

55, REV 8, N3 NOZZLE

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 106 GR B	CS	UT-4
8"MSR-D	8	160	0.906	SA 106 GR B	CS	UT-24

NO	DATE	REVISION	BY	CHKD	APPVD
1	1-10-79	CAL BLOCK REFERENCE CHANGED (FOR 8" PIPING)	KMA	ACJ	Dup.
0	11-27-78	ISSUED FOR USE	KMA	ACJ	Dup.
A	4-21-78	ISSUED FOR INFORMATION ONLY	KMA	ACJ	Dup.

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: KMA | DATE: 1-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE D

DWG NO: MS-104-1 | REV 1

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE D REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-1	NOZZ TO TRANSITION	B-J	X						UTP-10	UT-104			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-2	TRANSITION TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-3	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-3LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-3LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-4LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-4LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-4	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 2 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO: MS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE D REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	ISUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-4PR	PHS												NOTE 1
MS-104	26MS(1)D-5	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-5PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10				
					X					PTP-1				
		HANGER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-5PR1	PHS												NOTE 1
MS-104	26MS(1)D-5PR2	SNUBBER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-5PR3	SNUBBER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-6	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-6LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-6LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 3 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. HS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE D REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	IVT-1	IVT-2	IVT-3	IVT-4			REQUIREMENTS	YEAR OF INTERVAL	
HS-104	26HS(1)D-7LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-104	26HS(1)D-7LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-104	26HS(1)D-6PR	SHUBBER	B-K-2						X	QCS&I-002				
HS-104	26HS(1)D-7	EL TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-104	26HS(1)D-7/ BHSR-4D	PIPE TO SHL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-104	BHSR-4D1	SHL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
HS-104	BHSR-4D2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
HS-104	BHSR-4D-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
HS-104	HS-RV-4D	VALVE BOLTING	B-G-2			X				QCS&I-002				
HS-104	HS-RV-4D	VALVE BODY	B-M-2					X		QCS&I-002				

WIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 7/27/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE D REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-7PR1	PMS												NOTE 1
MS-104	26MS(1)D-7/ 8MSR-3D	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	8MSR-3D1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-104	8MSR-3D2	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-104	8MSR-3D-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-3D	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-RV-3D	VALVE BODY	B-M-2					X		QCS&I-002				
MS-104	26MS(1)D-7/ 8MSR-2D	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	8MSR-2D1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			
MS-104	8MSR-2D2	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-24			

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 10

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. HS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE D | REVISION: 0

ITEM NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
HS-104	BHSR-2D-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
HS-104	HS-RV-2D	VALVE BOLTING	B-G-2			X				QCS&I-002				
HS-104	HS-RV-2D	VALVE BODY	B-H-2					X		QCS&I-002				
HS-104	26HS(1)D-7PR2	PHS												NOTE 1
HS-104	26HS(1)D-7/ BHSR-1D	PIPE SWL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
HS-104	BHSR-1D1	SWL TO PIPE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
HS-104	BHSR-1D2	PIPE TO FLANGE	B-J	X						UTP-10	UT-24			
					X					PTP-1				
							X			QCS&I-002				
HS-104	BHSR-1D-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
HS-104	HS-RV-1D	VALVE BOLTING	B-G-2			X				QCS&I-002				
HS-104	HS-RV-1D	VALVE BODY	B-H-2					X		QCS&I-002				
HS-104	26HS(1)D-8	PIPE TO ELL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

NHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE D | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-8LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
MS-104	26MS(1)D-8LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-9LUI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-9LUO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-9	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-9PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-9PR2	PHS												NOTE 1
MS-104	26MS(1) D-9A	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-9PR3	SNUBBER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-10	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6a of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: CLASS 1 MAIN STEAM LINE D | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-10/ 3/4 D006	INSTR CONN	B-P				X			QCS&I-002				

VIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 7 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE D REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-10/ 3/4 D008	INSTR CONN	B-P				X			QCS&I-002				
MS-104	26MS(1)D-10/ 3/4 D007	INSTR CONN	B-P				X			QCS&I-002				
MS-104	26MS(1)D-10/ 3/4 D009	INSTR CONN	B-P				X			QCS&I-002				
MS-104	26MS(1)D-11	PIPE TO PIPE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-11PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10	UT-4			
					X					PTP-1				
		HANGER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-11PR	PHS												NOTE 1
MS-104	26MS(1)D-12	PIPE TO EL	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-12LDI	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	26MS(1)D-12LDO	EL SEAM	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 8 of 10

INTERVAL: Baseline / 1

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: CLASS 1 MAIN STEAM LINE D

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-13LU1	EL SEAM	B-J	X	X		X			UPT-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-13LU0	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-13	EL TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-13LD1	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-13LD0	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-14LU1	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-14LU0	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			
MS-104	26MS(1)D-14	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-4			

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 9 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 1 MAIN STEAM LINE D REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	26MS(1)D-14PR1	SNUBBER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-14PR2	SNUBBER	B-K-2						X	QCS&I-002				
MS-104	26MS(1)D-14PR3	PHS												NOTE 1
MS-104	26MS(1)D-15	PIPE TO VALVE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-104	MS-V-22D/ 2MS(9)-4	DRAIN CONN	B-J		X					PTP-1				
							X			QCS&I-002				
MS-104	MS-V-22D/ 3/4 LOC	LEAK OFF CONN	B-P				X			QCS&I-002				
MS-104	MS-V-22D	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-V-22D	VALVE BODY	B-M-2					X		QCS&I-002				
MS-104	26MS(1)D-16	VALVE TO PENE.	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				
MS-101	MS FLUED HEAD	FLUED HEAD WELD	B-K-1	X						UTP-10	UT-40			
					X					PTP-1				
MS-104	26MS(1)D-17	PENE. TO VALVE	B-J	X						UTP-10	UT-4			
					X					PTP-1				
							X			QCS&I-002				

UNP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

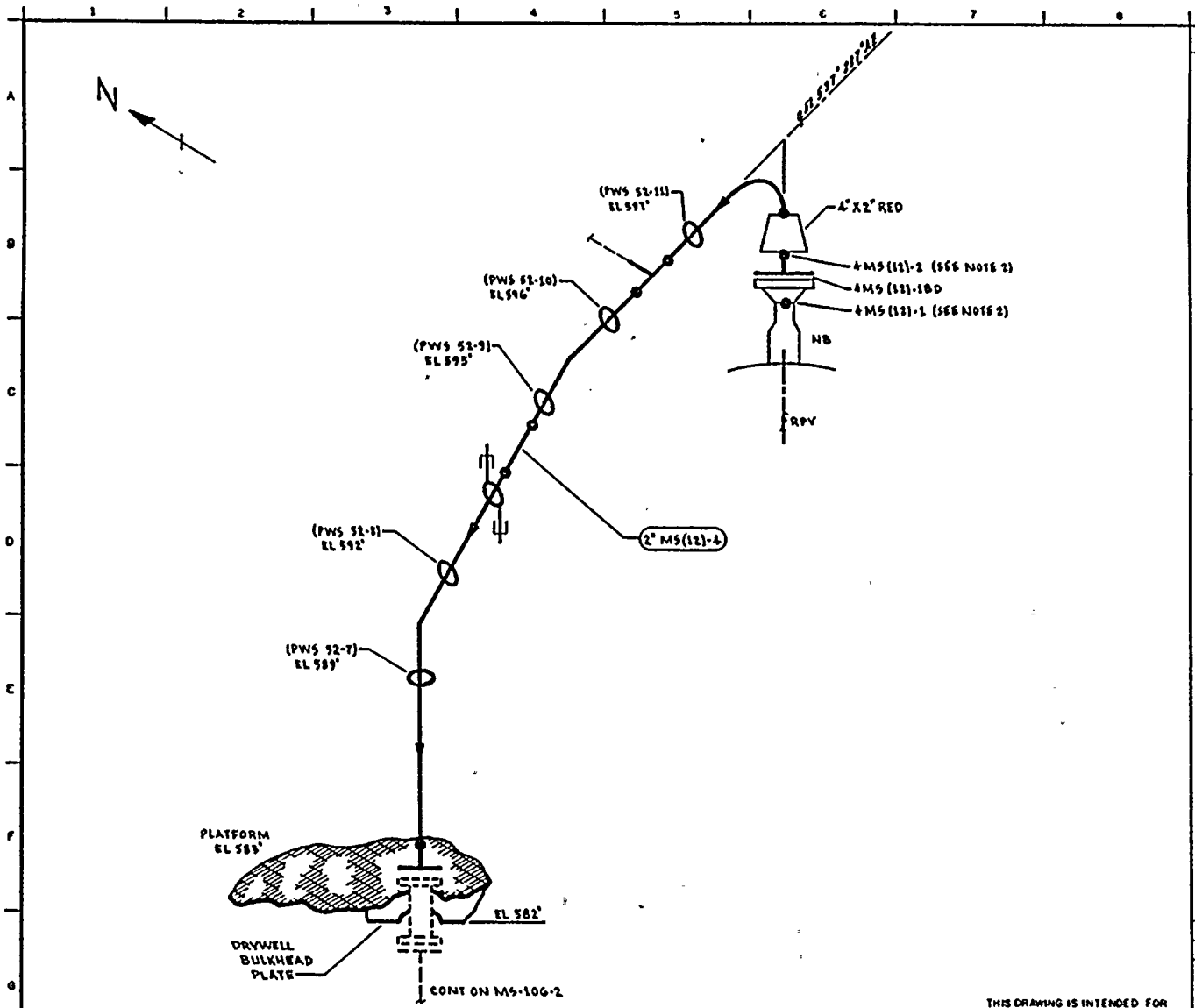
DATE:

PERIOD: NA

DESCRIPTION: CLASS 1 MAIN STEAM LINE D

REVISION:

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-104	MS-V-28D/ 2MS(9)-4	DRAIN CONN	B-J		X		X			PTP-1 QCS&I-002				
MS-104	MS-V-28D/ 3/4 LOC	LEAK OFF CONN	B-P				X			QCS&I-002				
MS-104	MS-V-28D	VALVE BOLTING	B-G-2			X				QCS&I-002				
MS-104	MS-V-28D	VALVE BODY	B-M-2					X		QCS&I-002				



NOTES:

1. THIS DRAWING SPECIFIES PIPING & COMPONENTS SUBJECT TO A VISUAL EXAM FOR EVIDENCE OF LEAKAGE DURING SYSTEM HYDRO OR OPERABILITY TESTS. TESTS ARE TO BE CONDUCTED PER THE REQUIREMENTS OF ASME SECTION XI, PARAGRAPH IWA-5000.
2. WELDS 4MS(12)-1 & 4MS(12)-2 ARE FITTING TO FITTING. THEY SHOULD BE GROUND FLUSH & ULTRASONICALLY EXAMINED WITH SMALL (½") TRANSDUCERS.

REFERENCES:

BURNS & ROE DRAWING
M200 SH 52 REV 3

CBI NUCLEAR CO.
71, REV 9, NB VENT

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
2" MS(12)-4	2	160	0.344	SA 106 GR B	CS	NA
4" MS(12)-4	4	80	0.337	SA 106 GR B	CS	UT-30

NO	DATE	REVISION	BY	CHKD	APPVD
0	5-23-18	ISSUED FOR USE (REDRAWN)	K.McA	[illegible]	[illegible]
A	5-18-18	ISSUED FOR INFORMATION ONLY	K.McA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D TIMMINS | DRAWN: K.McA | DATE: 4-12-18

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM REACTOR VESSEL HEAD VENT

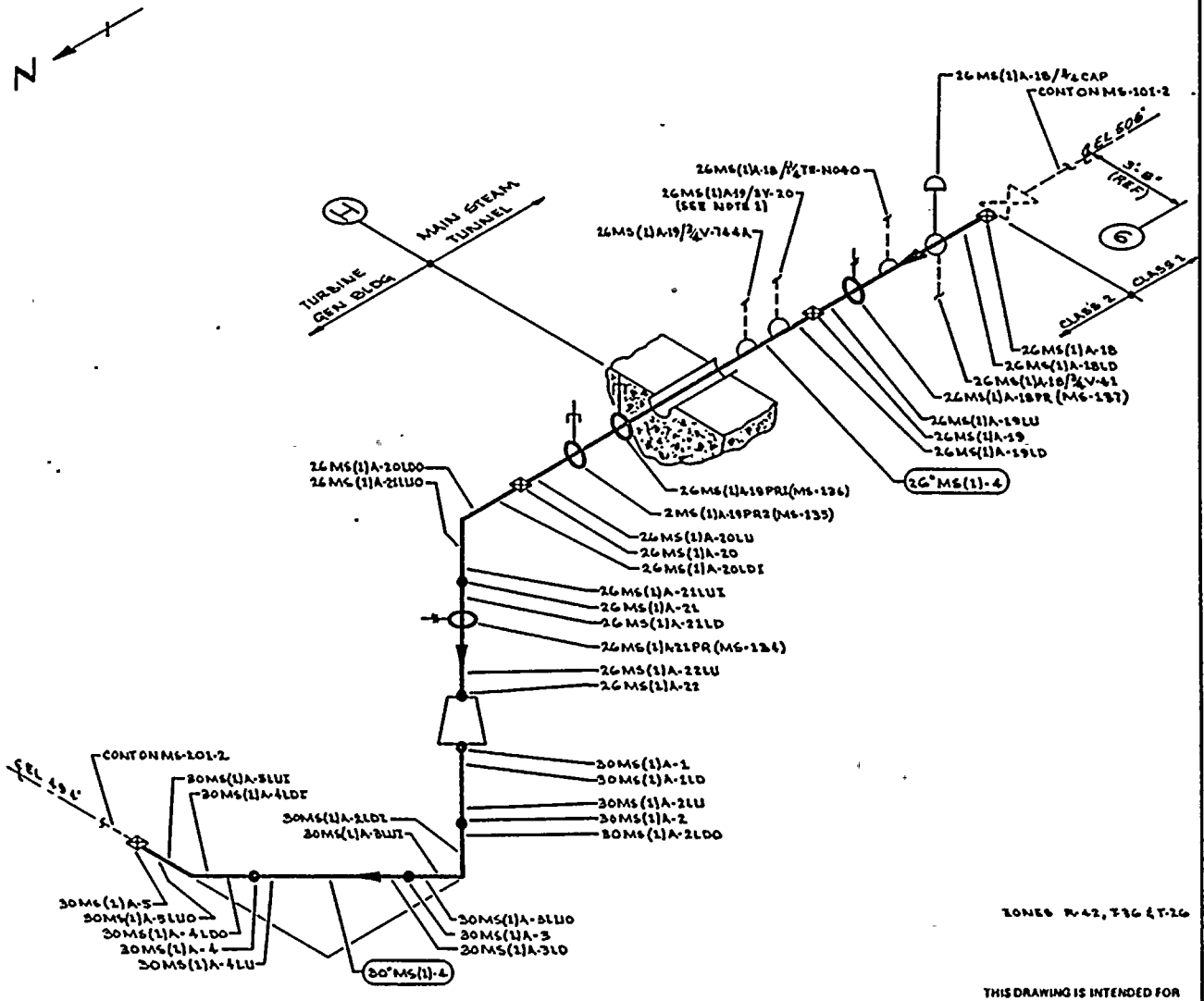
DWG NO: MS-106-1 | REV 0

UMP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 1

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(12)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: MAIN STEAM, REACTOR VESSEL HEAD VENT REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-106	4MS(12)-1	NOZZLE TO FLANGE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
MS-106	4MS(12)-1BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
MS-106	4MS(12)-2	FLANGE TO REDUCER	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				

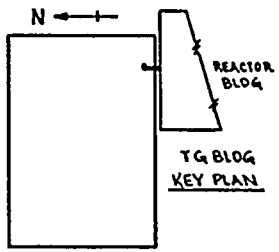


NOTES:

1. A 2" CONNECTION WITH VISUAL (VS-2) SEAM TERMINATING AT 2" MS-V-20.

REFERENCES:

BOVEE & CRAIL ISOMETRIC MS-528-1.3 REV 4



QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: K-M-S-A DATE: 2-1-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 155 CL 1 KCF 70	CG	UT-3
30"MS(1)-4	30	XXX	1.25	SA 155 CL 1 KCF 70	CG	UT-1

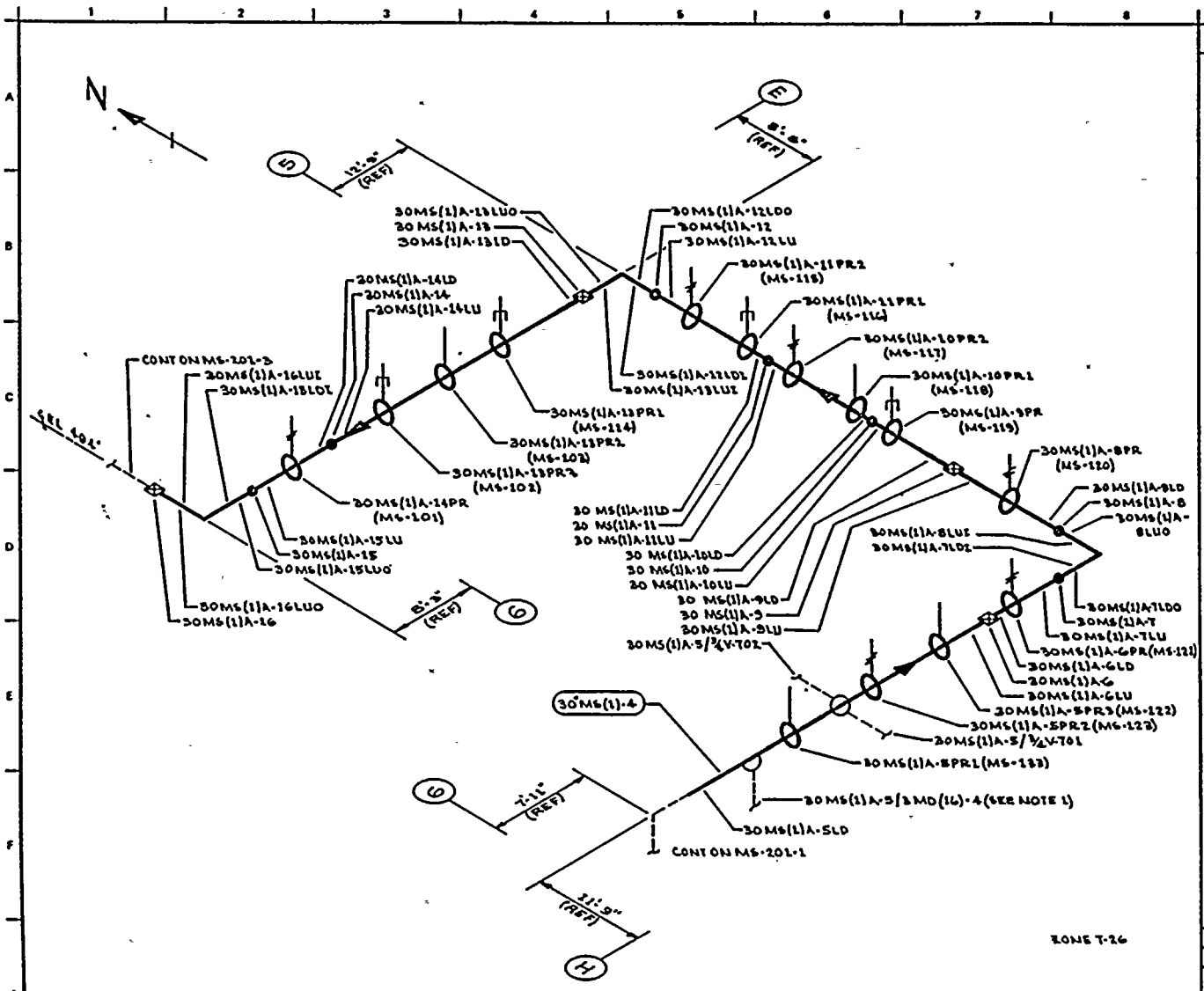
NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE			
A	6-26-78	ISSUED FOR INFORMATION ONLY			

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-201-1 REV 0

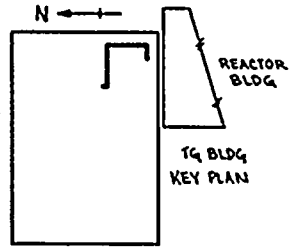


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH DRAINAGE SYSTEM TO VALVES MS-V-72 & MS-V-73.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-528-4-6 REV 5



QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR. D TIMMING	DRAWN: K.M.C.A.
	DATE: 2-1-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

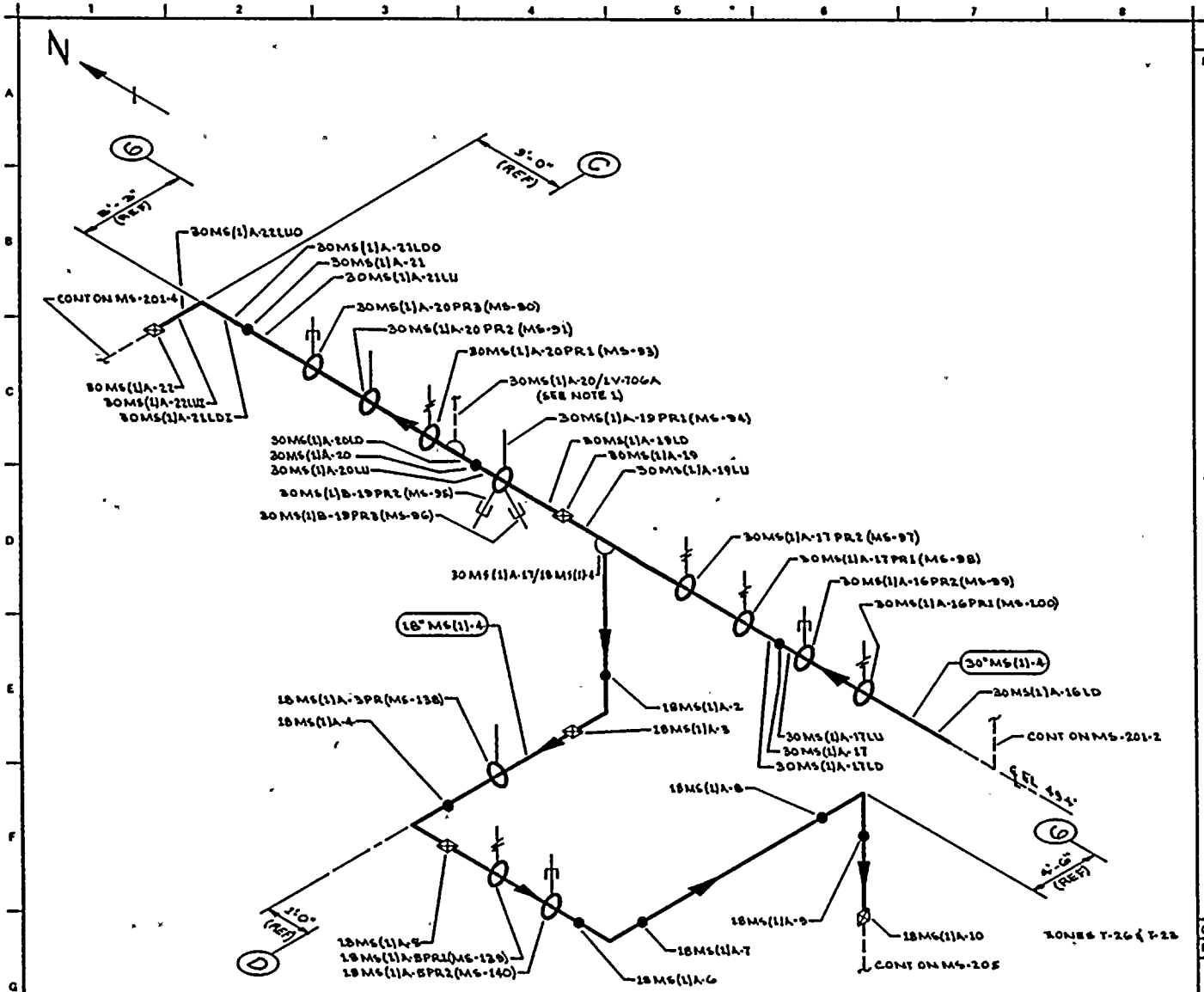
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS (1)-4	30	XXX	1.25	SA 155 CL I KCF 70	C6	UT-1

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-201-2 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-1-79	ISSUED FOR USE	KMCA	[illegible]	[illegible]
A	42078	ISSUED FOR INFORMATION ONLY	KMCA	[illegible]	[illegible]

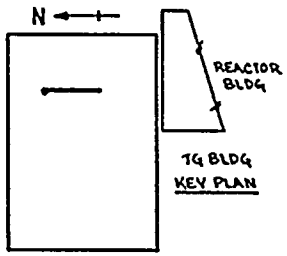


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-706A TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES:

BOVEE & CRAIL 1800METRIC
MS-520-710 REV 3



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: K-M-L DATE: 2-1-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

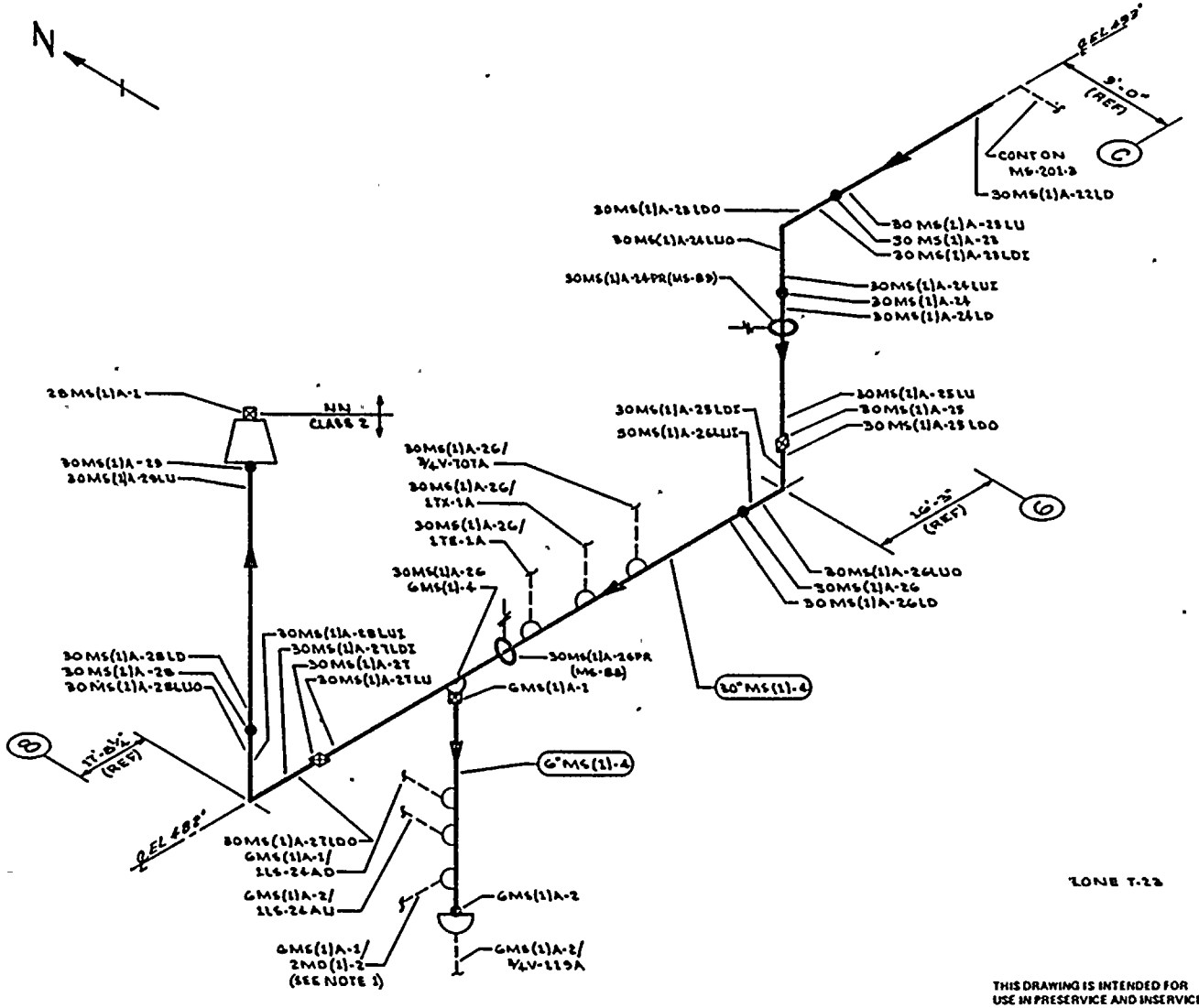
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
18"MS(1)-4	18	80	0.938	SA 106 GR B	CS	UT-12

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-201-3 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-13-79	DELETED TEE & CORRESPONDING WELDS. ADDED WOL K-M D-4	K-M-L	[illegible]	[illegible]
0	1-9-79	ISSUED FOR USE	K-M-L	[illegible]	[illegible]
A	12-0-78	ISSUED FOR INFORMATION ONLY	K-M-L	[illegible]	[illegible]



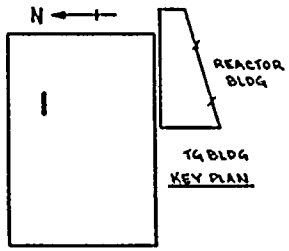
NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVES MO-V-120A & MO-V-117A.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

MS-528-7.10	REV 3
MS-528-11.12	REV 3
MS-528-13	REV 3



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
6"MS(1)-4	6	80	0.432	SA 106 GR B	CS	NA
28"MS(1)-4	28	XXX	1.420	SA 155 CL1 KCF 70	CS	UT-2

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	KML	[illegible]	[illegible]
A	4-20-79	ISSUED FOR INFORMATION ONLY	KML	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

ENGR: D TIMMINS | DRAWN: K. M. L. A. | DATE: 1-25-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE A

DWG NO: MS-201-4 | REV 0

UNIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	26 MS(1)A-18	VLV TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-201	26 MS(1)A-18 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-201	26 MS(1)A-18/ 3/4 CAP	CAPPED CONN	IWC-2510				X			QCS&I-002				
MS-201	26 MS(1)A-18/ 3/4V-41	TEST CONN	IWC-2510				X			QCS&I-002				
MS-201	26 MS(1)A-18/ 1¼TE-N040	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-201	26 MS(1)A-18 PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	26 MS(1)A-19 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-201	26 MS(1)A-19	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-201	26 MS(1)A-19 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	26 MS(1)A-19/ 2V-20	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-201	26 MS(1)A-19/ 3/4V-744A	INST. CONN	IWC-2510				X			QCS&I-002				
MS-201	26 MS(1)A-19 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	26 MS(1)A-19 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	26 MS(1)A-20 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-201	26 MS(1)A-20	PIPE TO EL	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-201	26 MS(1)A-20 LDI	EL SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-201	26 MS(1)A-20 LDO	EL SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-201	26 MS(1)A-21 LUI	EL SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 3 of 22

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	26 MS(1)A-21 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-201	26 MS(1)A-21	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-201	26 MS(1)A-21 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-201	26 MS(1)A-21 PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	26 MS(1)A-22 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-201	26 MS(1)A-22	PIPE TO REDUCER	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-201	30 MS(1)A-1	REDUCER TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-1LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-2LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-2	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-2 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-2 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-3 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-3 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-3	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-3 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-4LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-4	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-4 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-4 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-5 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-5 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-5	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-5LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 6 of 22

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-5/ 3HD(16)-4	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-201	30 MS(1)A-5 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-201	30 MS(1)A-5/ 3/4V-701	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-201	30 MS(1)A-5/ 3/4V-702	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-201	30 MS(1)A-5 PR2	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-5 PR3	HANGER	C-E-2					X		QCS&I-002				
MS-201	30 MS(1)A-6LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-6	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-6LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-6PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-7LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-7	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-7 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-7 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-8 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-8 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-8	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-8LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-8PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-9LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-9	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-9LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-9PR	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-10 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-10	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-10 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

MIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 9 of 22

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-10 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-201	30 MS(1)A-10 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-11 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-11	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-11 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-11 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-11 PR2	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-12 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-12	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 10 of 22

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-12 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-12 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-13 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-13 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-13	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-13 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-13 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-13 PR2	HANGER	C-E-2					X		QCS&I-002				

UNIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE A

REVISION: 0

DIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-13 PR3	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-14 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-14	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-14 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-14 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-15 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-15	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-15 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 12 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-15 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-16 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-16 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-16	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-16 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-16 PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-16 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-17 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

MHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 13 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-17	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-17 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-17 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-17 PR2	SPRING HGR	C-E-2						X	QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE A

REVISION: 1

ING. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-17/ 18 MS(1)-4	PIPE TO HOL	C-F		X		X			PTP-1 QCS&I-002				
MS-201	18 MS(1)A-1	HOL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-201	18 MS(1)A-2	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-201	18 MS(1)A-3	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-201	18 MS(1)A-3 PR	HANGER	C-E-2					X		QCS&I-002				
MS-201	18 MS(1)A-4	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-201	18 MS(1)A-5	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				

NHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 15 of 22

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 7/27/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE A REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	18 MS(1)A-5 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	18 MS(1)A-5 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	18 MS(1)A-6	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-201	18 MS(1)A-7	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-201	18 MS(1)A-8	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-201	18 MS(1)A-9	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-201	18 MS(1)A-10	PIPE TO WOL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 16 of 22

INTERVAL: BASELINE / | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 7/27/79

PERIOD: MA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-19LU	PIPE SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-19	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-19 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-19 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-201	30 MS(1)A-19 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-19 PR3	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-20 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-20	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-20 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-20/ 1V-706A	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-201	30 MS(1)A-20 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-20 PR2	HANGER	C-E-2					X		QCS&I-002				
MS-201	30 MS(1)A-20 PR3	SNUBBER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-21 LU	PIPE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-201	30 MA(1)A-21	PIPE TO EL	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-201	30 MS(1)A-21 LDI	EL SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-201	30 MS(1)A-21 LDO	EL SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							
MS-201	30 MS(1)A-22 LUI	EL SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X		X							

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 18 of 22

INTERVAL.: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-22 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-22	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MA(1)A-22 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-23 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MA(1)A-23	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-23 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-23 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-24 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

UHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 19 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-24 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-24	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-24 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-24 PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-25 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MA(1)A-25	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-25 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-25 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 20 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-26 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-26 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-26	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-26 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-26/ 3/4V-707A	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-201	30 MS(1)A-26/ 1TX-1A	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-201	30 MS(1)A-26/ 1TE-1A	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-201	30 MS(1)A-26 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-201	30 MS(1)A-26/ 6MS(1)-4	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 21 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

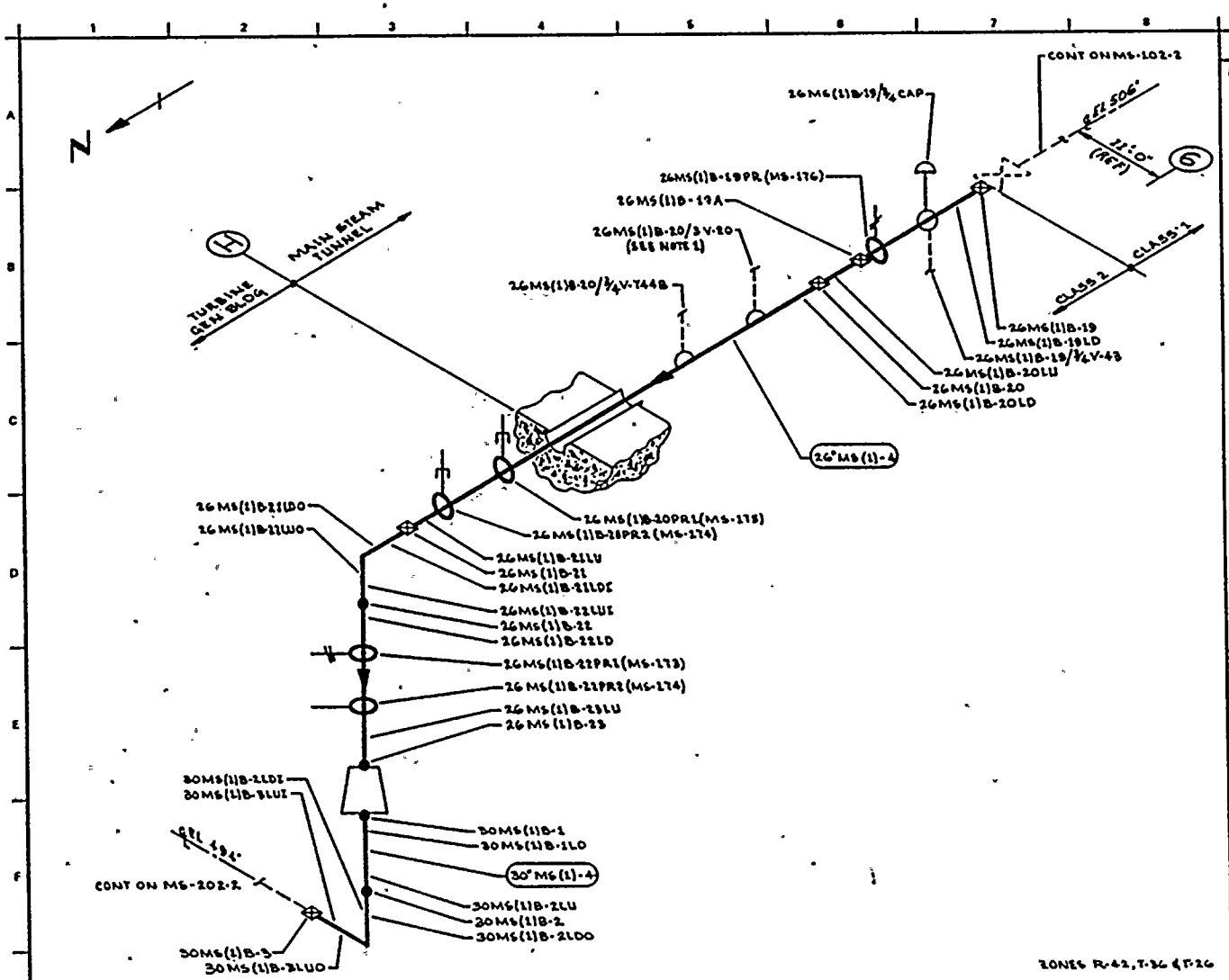
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	6MS(1)A-1	PIPE TO WOL	C-F		X					PTP-1				
							X			QCS&I-002				
MS-201	6MS(1)A-1/ 1LS-24AD	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-201	6MS(1)A-2/ 1LS-24AU	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-201	6MS(1)A-1/ 2MD(1)-2	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-201	6MS(1)A-2	CAP TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
MS-201	6MS(1)A-2/ 3/4V-119A	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-201	30 MA(1)A-27 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-27	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-201	30 MS(1)A-27 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 22 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-201	30 MS(1)A-27 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-28 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-28 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-28	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-28 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-29 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	30 MS(1)A-29	PIPE TO REDUCER	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-201	28 MS(1)A-1	REDUCER TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-2			



ZONES R-42, T-36 & T-26

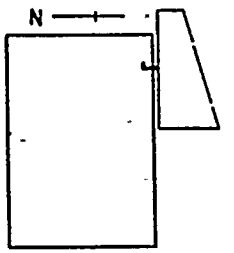
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

1. A 2" CONNECTION WITH VISUAL (VT-2) EXAM TERMINATING AT 3" MS-V-20.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-529-1.3 REV 2



PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26"MS(1)-4	26	XXX	1.125	SA 155 CL1 KCF 70	CS	UT-3
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1

NO	DATE	REVISION	BY	CHKD	APPVD
1	8-30-79	ADDED FIELD WELD 26MS(1)B-19A 'EN B-6.	[illegible]	[illegible]	[illegible]
0	1-9-79	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	4-24-78	ISSUED FOR INFORMATION ONLY	[illegible]	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 2

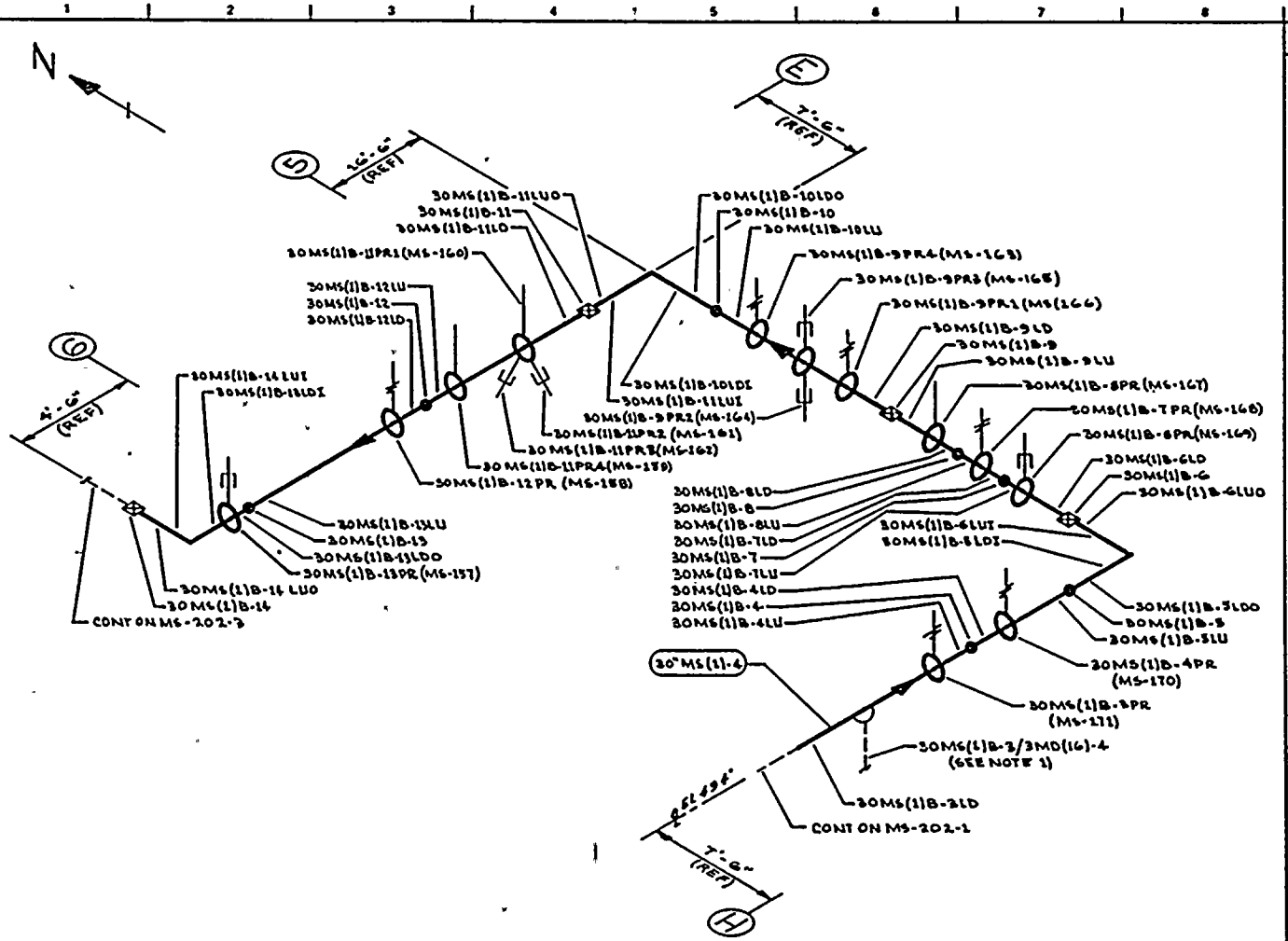
ENGR: D TIMMINS | DRAWN: K. M. A. | DATE: 2-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE B

DWG NO: MS-202-1 | REV 1

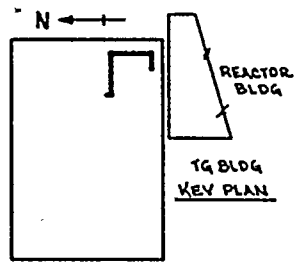


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH DRAINAGE SYSTEM TO VALVES MS-V-72 & MS-V-73.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-529-4-7 REV 1



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: D TIMMINS	DRAWN: K.M.C.A	DATE: 2-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

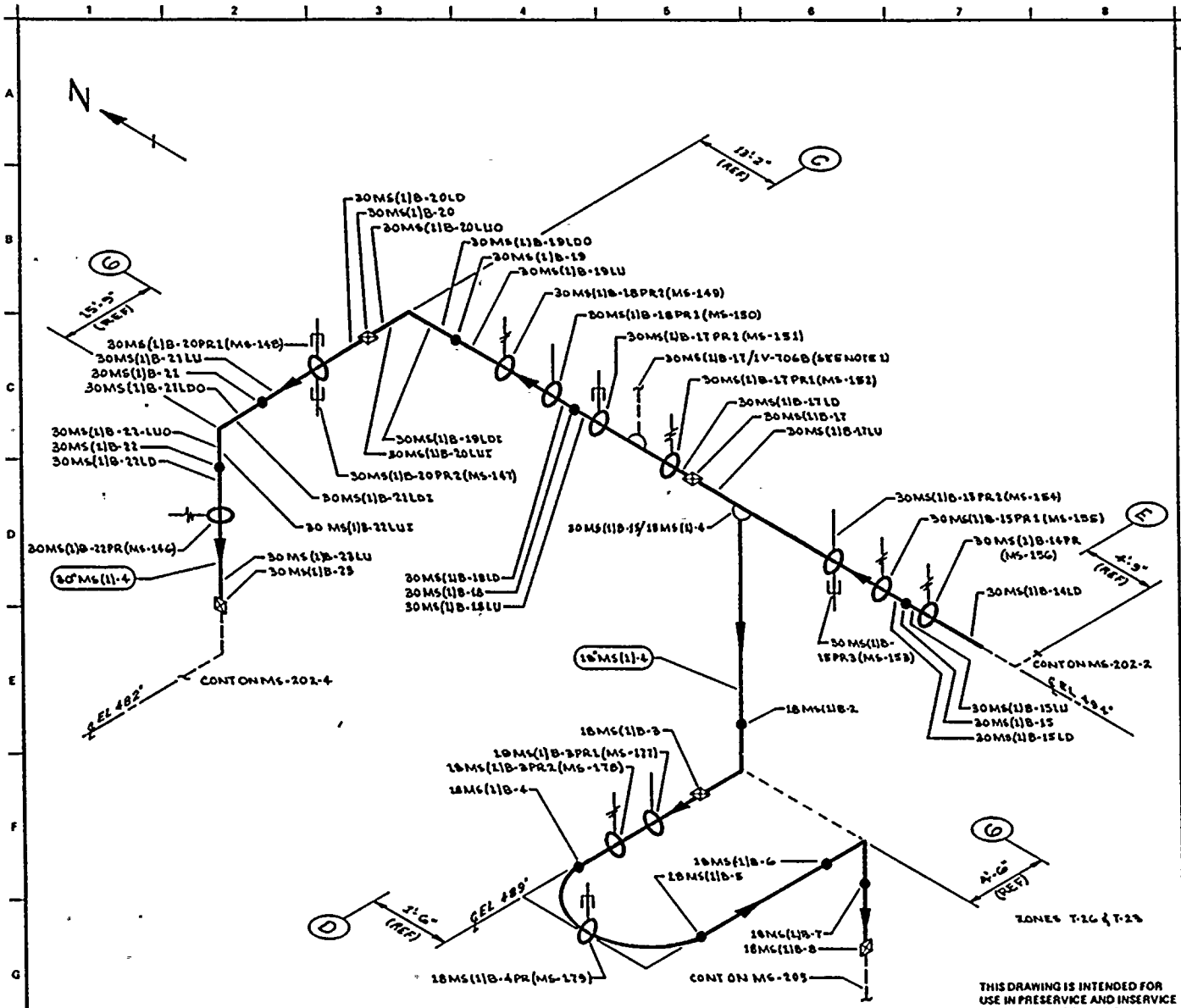
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.26	SA 155 CL 1 KCF 70	CS	UT-1

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE B

DWG NO: MS-202-2 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	4-20-78	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

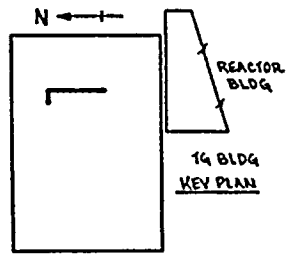


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-706B TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-629-B.11 REV B



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS (1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	C6	UT-1
18" MS (1)-4	18	80	0.938	SA 106 GR B	C5	UT-12

NO	DATE	REVISION	BY	CHKD	APPVD
1	7-11-19	DELETED ISI (CROSS HATCHING WELDS ADDED WHICH END BE ADDED REF ENG'G	K.M.A	[illegible]	[illegible]
0	1-9-19	ISSUED FOR USE	K.M.A	[illegible]	[illegible]
A	4-30-18	ISSUED FOR INFORMATION ONLY	K.M.A	[illegible]	[illegible]

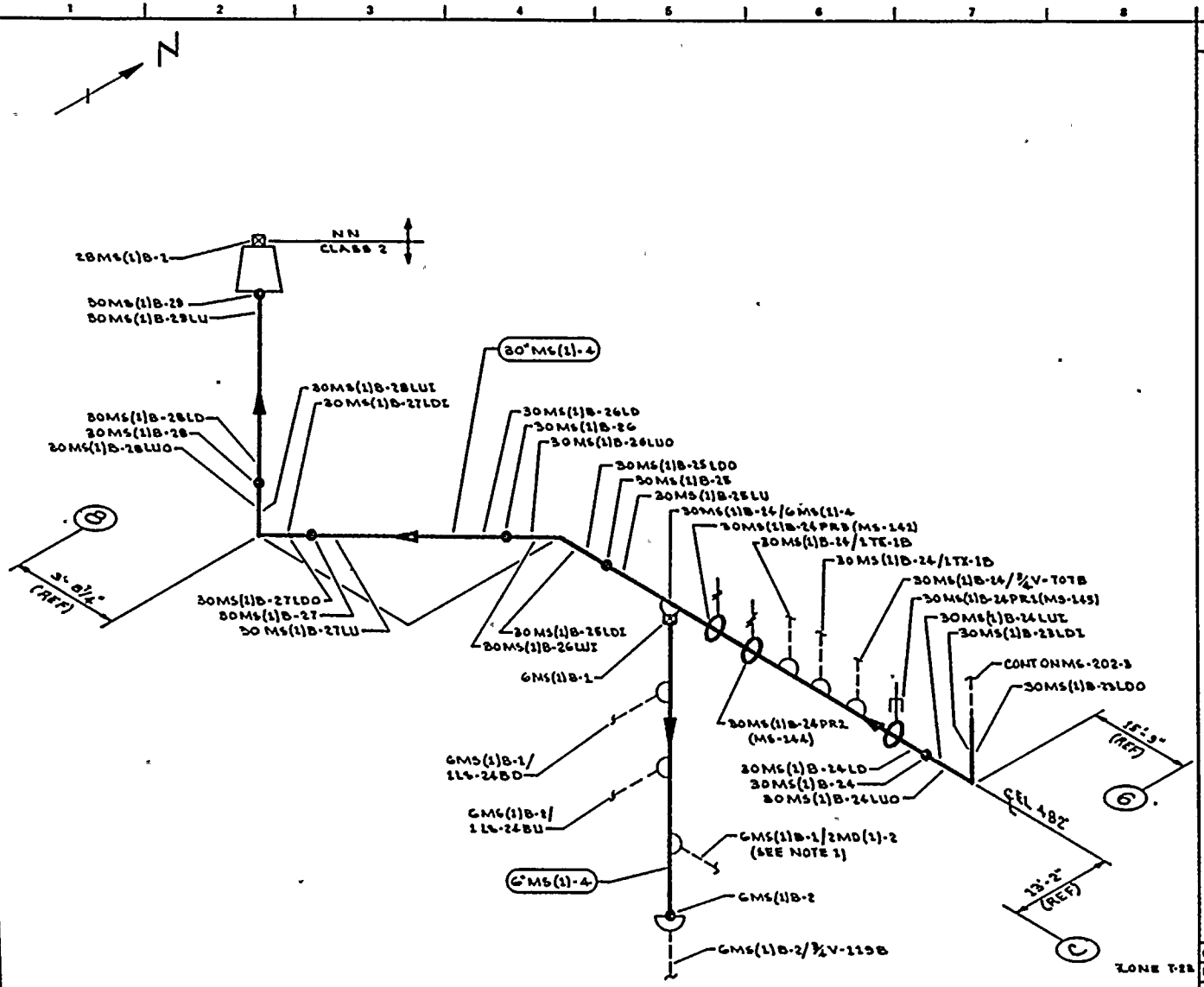
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: D TIMMINS | DRAWN: K.M.S.A. | DATE: 2-2-18

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE B

DWG NO: MS-202-3 | REV 1



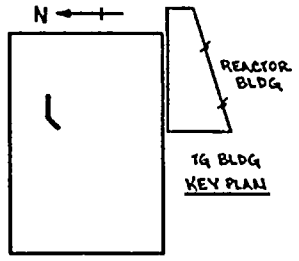
NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVES MD-V-120B & MD-V-117B.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

MS-528-12	REV B
MS-529-13	REV 4



QUALITY CLASS: 1	ASME CODE CLASS: 2	
ENGR: D TIMMINS	DRAWN: K. McA	DATE: 2-20-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
6"MS(1)-4	6	80	0.432	SA 106 GR B	CS	NA
28"MS(1)-4	28	XXX	1.420	SA 155 CL1 KCF 70	CS	UT-2

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE B

DWG NO: MS-202-4 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	K.M.L	R.J.K	D.D
A	4-20-78	ISSUED FOR INFORMATION ONLY	K.M.L	R.J.K	D.D

WRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 22

INTERVAL: BASELINE / | SYSTEM OR COMPONENT NO. HS (1)-4 | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	26 MS(1)B-19	VALVE TO PIPE	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-19 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-19/ 3/4 CAP	CAPPED CONN	IWC-2510				X			UTP-10				
MS-202	26 MS(1)B-19/ 3/4 V-43	TEST CONN	IWC-2510				X			QCS&I-002				
MS-202	26 MS(1)B-19 PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	26 MS(1)B-19A	PIPE TO PIPE	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-20 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-20	PIPE TO PIPE	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-20 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	26 MS(1)B-20/ 2 V-20	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-202	26 MS(1)B-20/ 3/4V-744B	INST CONN	IWC-2510				X			QCS&I-002				
MS-202	26 MS(1)B-20 PR1	SHUDDER	C-E-2						X	QCS&I-002				
MS-202	26 MS(1)B-20 PR2	SHUDDER	C-E-2						X	QCS&I-002				
MS-202	26 MS(1)B-21 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-21	PIPE TO EL	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-21 LDI	EL SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-202	26 MS(1)B-21 LDO	EL SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				

UHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	26 MS(1)B-22 LUI	EL SEAM	C-F	X	X X					UTP-10 PTP-1 QCS&I-002	UT-3			
MS-202	26 MS(1)B-22 LUO	EL SEAM	C-F	X	X X					UTP-10 PTP-1 QCS&I-002	UT-3			
MS-202	26 MS(1)B-22	EL TO PIPE	C-F	X	X X					UTP-10 PTP-1 QCS&I-002	UT-3			
MS-202	26 MS(1)B-22 LD	PIPE LONG SEAM	C-F	X	X X					UTP-10 PTP-1 QCS&I-002	UT-3			
MS-202	26 MS(1)B-22 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	26 MS(1)B-22 PR2	HANGER	C-E-2					X		QCS&I-002				
MS-202	26 MS(1)B-23 LU	PIPE LONG SEAM	C-F	X	X X					UTP-10 PTP-1 QCS&I-002	UT-3			
MS-202	26 MS(1)B-23	PIPE LONG REDUCER	C-F	X	X X					UTP-10 PTP-1 QCS&I-002	UT-3			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-1	REDUCER TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-1LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)B-2LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-2	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-2 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-2 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-3 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-3 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

MIP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 5 of 22

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-3	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-3 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-3/ 3 MD(16)-4	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-202	30 MS(1)B-3PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-4LU	PIPE LONG SEAM	C-F	X						UTP-10	UR-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-4	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-4LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-4PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-5LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-5	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-5 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-5 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-6 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-6 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-6	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-6LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-6PR	SNUBBER	C-E-2						X	QCS&I-002				

UNIP- 2

INTERVAL: BASELINE

PERIOD: N/A

PROGRAM PLAN AND SCHEDULE

SYSTEM OR COMPONENT NO. MS (1)-4

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

DATE: 1/8/79

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-7LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-7	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-7LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-7PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-8LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-8	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-8LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-8PR	HANGER	C-E-2					X		QCS&I-002				
MS-202	30 MS(1)B-9LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2

INTERVAL: BASELINE

PERIOD: N/A

PROGRAM PLAN AND SCHEDULE

SYSTEM OR COMPONENT NO. MS (1)-4

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

DATE: 1/8/79

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-9	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-9LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-9 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-9 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-9 PR3	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-9 PR4	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-10 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-10	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

MHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 9 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-10 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-10 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-11 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-11 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-11	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-11 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-11 PR1	HANGER	C-E-2							QCS&I-002				
MS-202	30 MS(1)B-11 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-11 PR3	SNUBBER	C-E-2						X	QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 10 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-11 PR 4	HANGER	C-E-2					X		QCS&I-002				
MS-202	30 MS(1)B-12 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-12	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-12 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-12 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-13 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-13 PR	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-13	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-13 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 11 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. HS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-13 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-14 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-15 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-15	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 12 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-15 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-15 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-15 PR2	HANGER	C-E-2					X		QCS&I-002				
MS-202	30 MS(1)B-15 PR3	SNUBBER	C-E-2						X	QCS&I-002				

VIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 13 of 22

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 1

ING. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-15/ 18 MS(1)-14	PIPE TO WOL	C-F		X		X			PTP-1 QCS&I-002				
MS-202	18 MS(1)B-1	WOL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-2	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-3	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-3 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-202	18 MS(1)B-3 PR2	SPRING HGR	C-E-2					X		QCS&I-002				
MS-202	18 MS(1)B-4	PIPE TO 180° EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-4 PR	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	18 MS(1)B-5	180° EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	18 MS(1)B-6	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-7	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	18 MS(1)B-8	PIPE TO WOL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-17 LU	PIPE SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-17	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-17 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-17 PR1	SPRING HANGER	C-E-2						X	QCS&I-002				

WIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-17/ 1V-706B	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-202	30 MS(1)B-17 PR2	SNUBBER	C-E-2					X		QCS&I-002				
MS-202	30 MS(1)B-18 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-18	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-18 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-18 PR 1	HANGER	C-E-2				X			QCS&I-002				
MS-202	30 MS(1)B-18 PR2	SPRING HGR	C-E-2					X		QCS&I-002				
MS-202	30 MS(1)B-19 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-19	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 16 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-19 LDI	EL SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-202	30 MS(1)B-19 LDO	EL SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-202	30 MS(1)B-20 LUI	EL SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-202	30 MS(1)B-20 LUO	EL SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-202	30 MS(1)B-20	EL TO PIPE	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-202	30 MS(1)B-20 LD	PIPE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-202	30 MS(1)B-20 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-20 PR2	SNUBBER	C-E-2						X	QCS&I-002				

UNP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-21 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-21	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-21 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-21 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-22 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-22 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-22	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-22 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 18 of 22

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-22 PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-23 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-23	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-23 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-23 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-23 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-24 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-24	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 19 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-24 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-24 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-24/ 3/4V-708B	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-202	30 MS(1)B-24/ 1TX-1B	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-202	30 MS(1)B-24/ 1TE-1B	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-202	30 MS(1)B-24 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-24 PR3	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-202	30 MS(1)B-24/ 6MS(1)-4	WOL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
MS-202	6 MS(1)B-1	PIPE TO WOL	C-F		X					PTP-1				
							X			QCS&I-002				
MS-202	6 MS(1)B-1/ 1LS-248D	INSTR. CONN	IWC-2510				X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 20 of 22

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	6 MS(1)B-2/ 1LS-24BU	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-202	6 MS(1)B-1/ 2MD(1)-2	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-202	6 MS(1)B-2	CAP TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
MS-202	6 MS(1)B-2/ 3/4V-119B	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-202	30 MS(1)B-25 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-25	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-25 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-25 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-202	30 MS(1)B-26 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 21 of 22

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS (1)-4 DATE: 1/8/79

PERIOD: N/A DESCRIPTION: CLASS 2 MAIN STEAM LINE B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-26 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-26	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-26 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-27 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-27	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-27 LDI	EL INSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-27 LDO	EL OUTSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-28 LUI	EL INSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

NRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

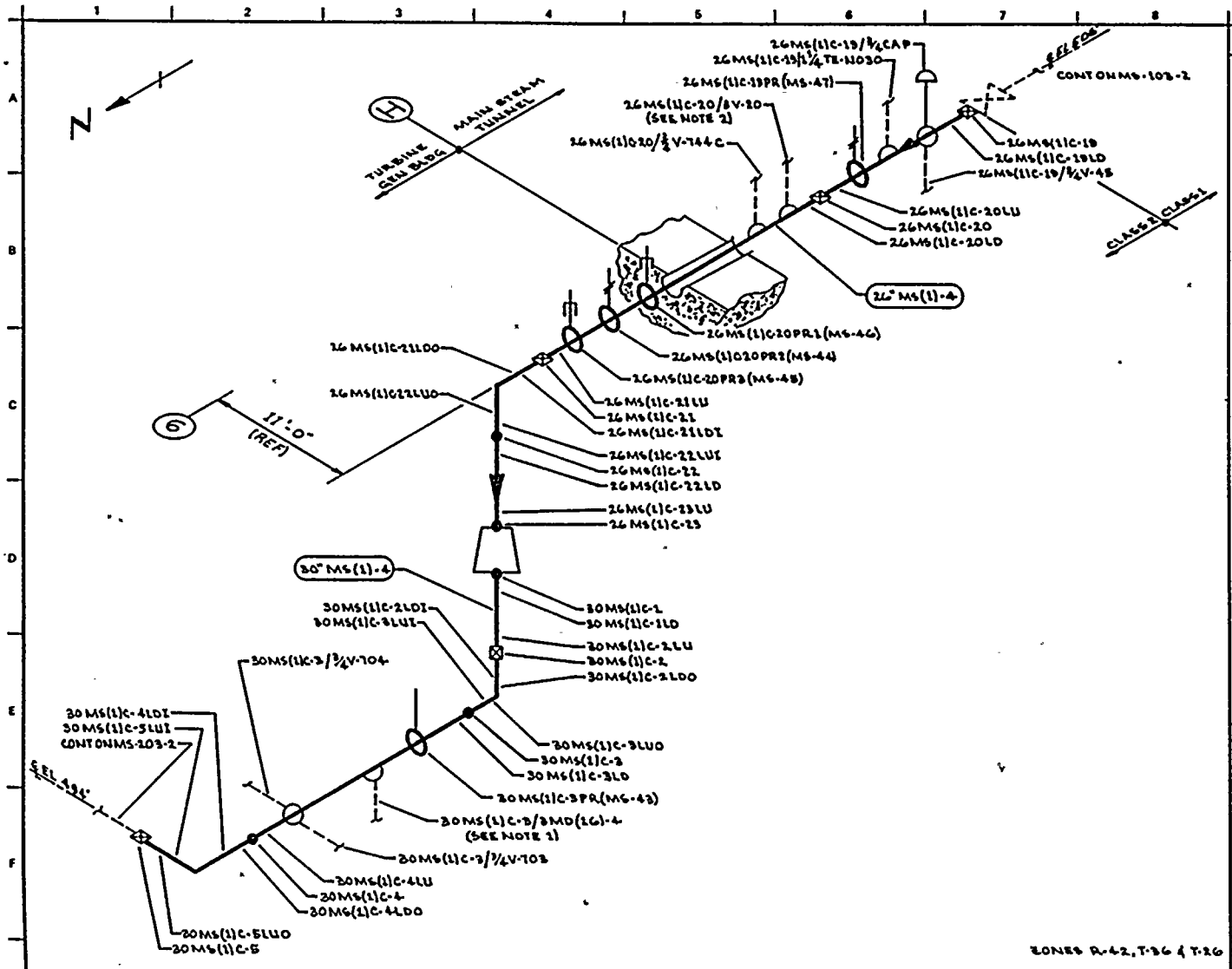
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-202	30 MS(1)B-28 LUO	EL OUTSIDE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-28	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-28 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-29 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	30 MS(1)B-29	PIPE TO REDUCER	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-202	28 MS(1)B-1	REDUCER TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-2			

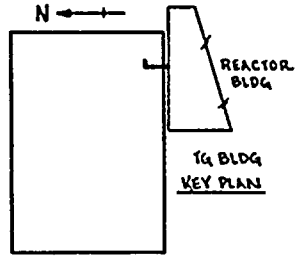


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH DRAINAGE SYSTEM TO VALVES MS-V-72 & MS-V-73.
2. A 2" CONNECTION WITH VISUAL (VT-2) EXAM TERMINATING AT 3" MS-V-20.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-B30-1.B REV 3



ZONES R-42, T-36 & T-26

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
26" MS(1)-4	26	XXX	1.125	SA 155 CL1 KCF 70	C6	UT-3
30" MS(1)-4	30"	XXX	1.25	SA 155 CL1 KCF 70	C6	UT-1

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-19	ISSUED FOR USE			
A	4-26-18	ISSUED FOR INFORMATION ONLY			

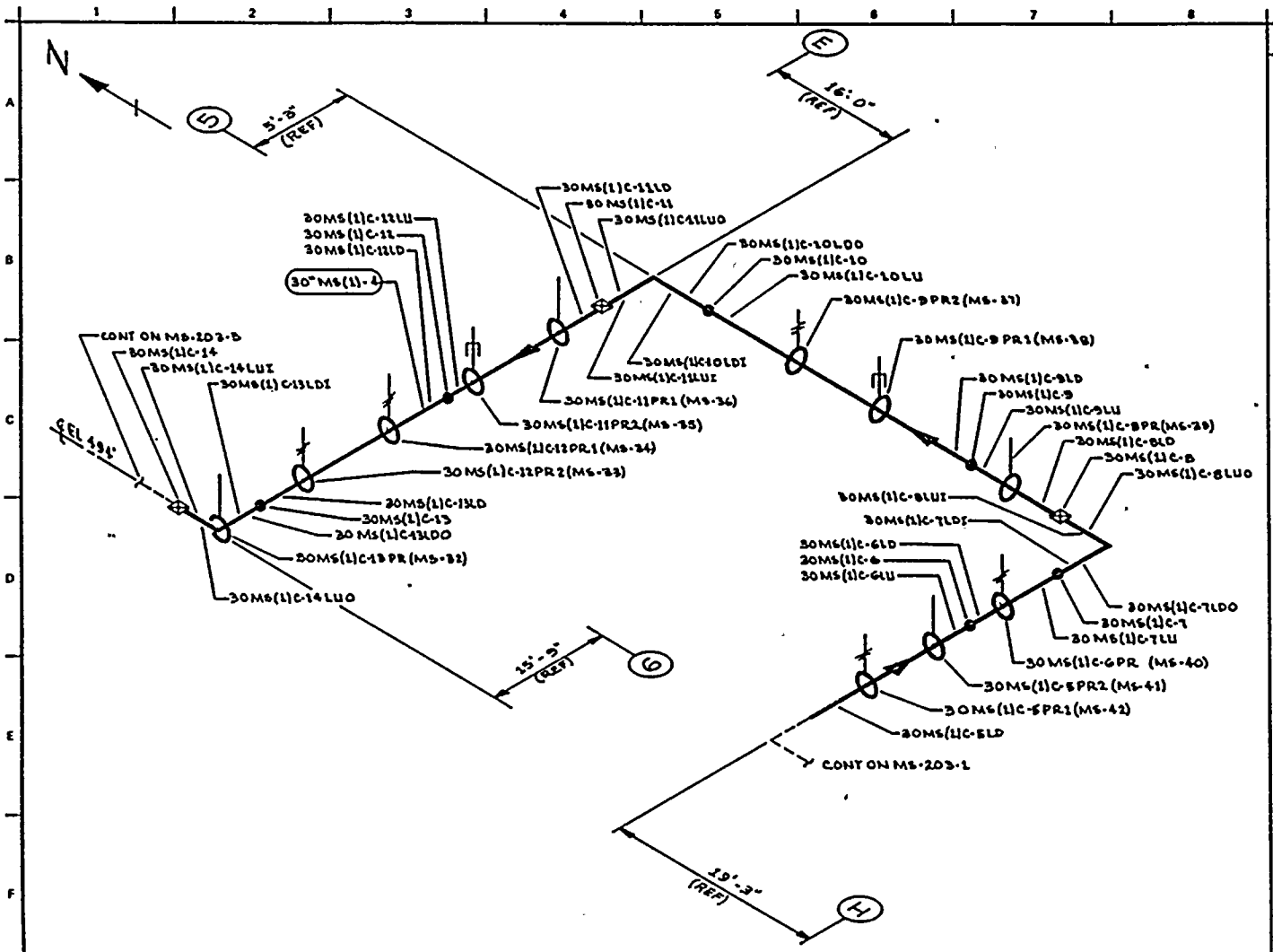
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: D TIMMING | DRAWN: K. McA | DATE: 2-2-18

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE C

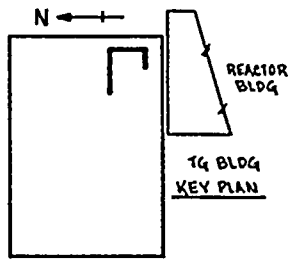
DWG NO: MS-203-1 | REV 0



NOTES:

REFERENCES:

BOYER & CRAIL ISOMETRIC
MS-530-4.6 REV 1



QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: K.M.A. DATE: 2-6-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

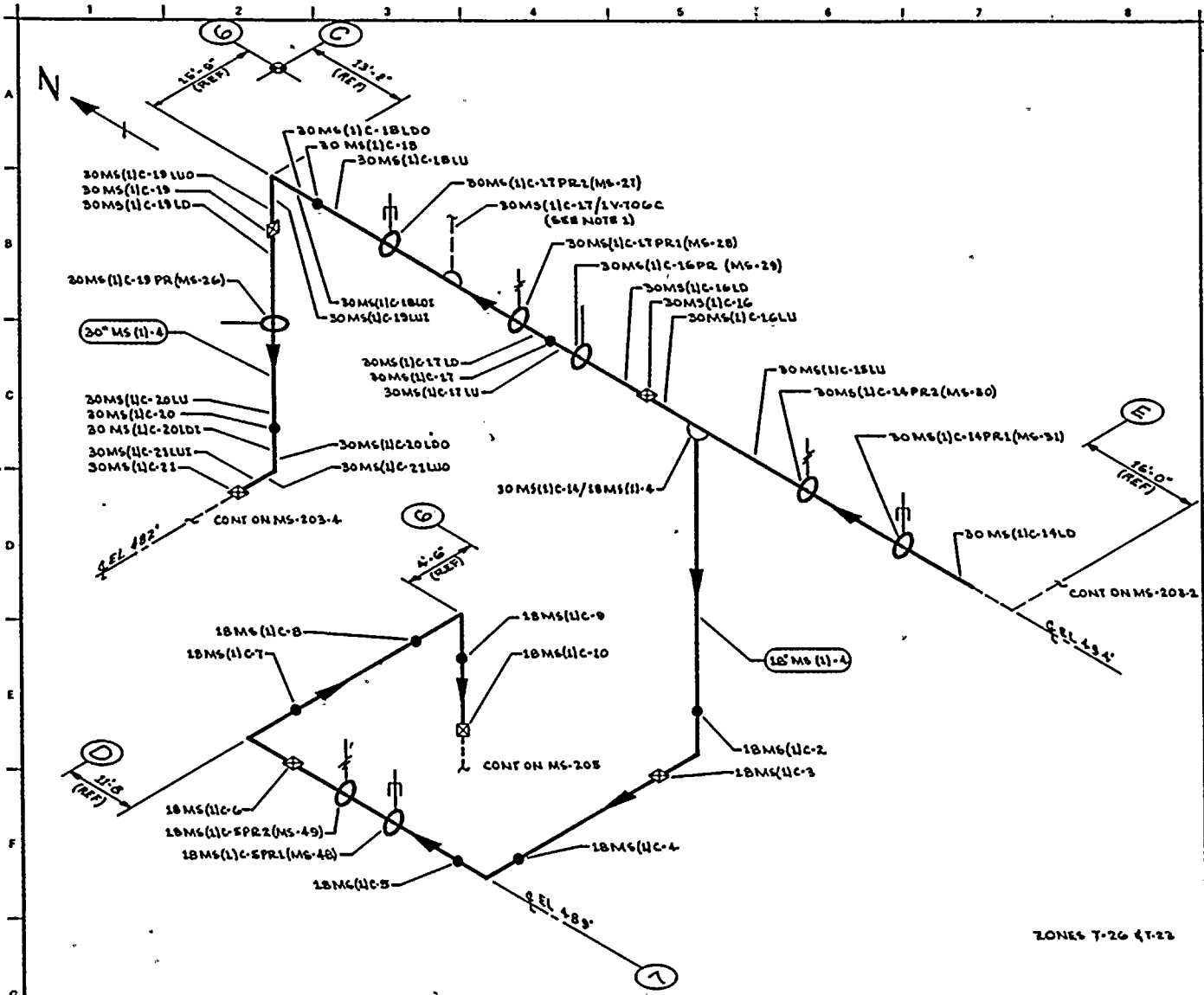
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS(1)-4	30	XXX	1.25	SA 155 CLI KCF 70	C6	UT-1

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE C

DWG NO: MS-203-2 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	4-20-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	DR

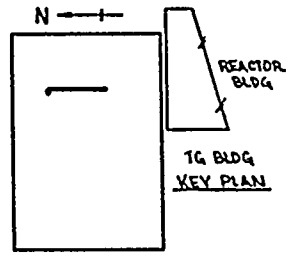


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-N-106C TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES:

BOVER & CRAIL ISOMETRIC
MS-530-7.10 REV 3



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: K.M.A. DATE: 2-6-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

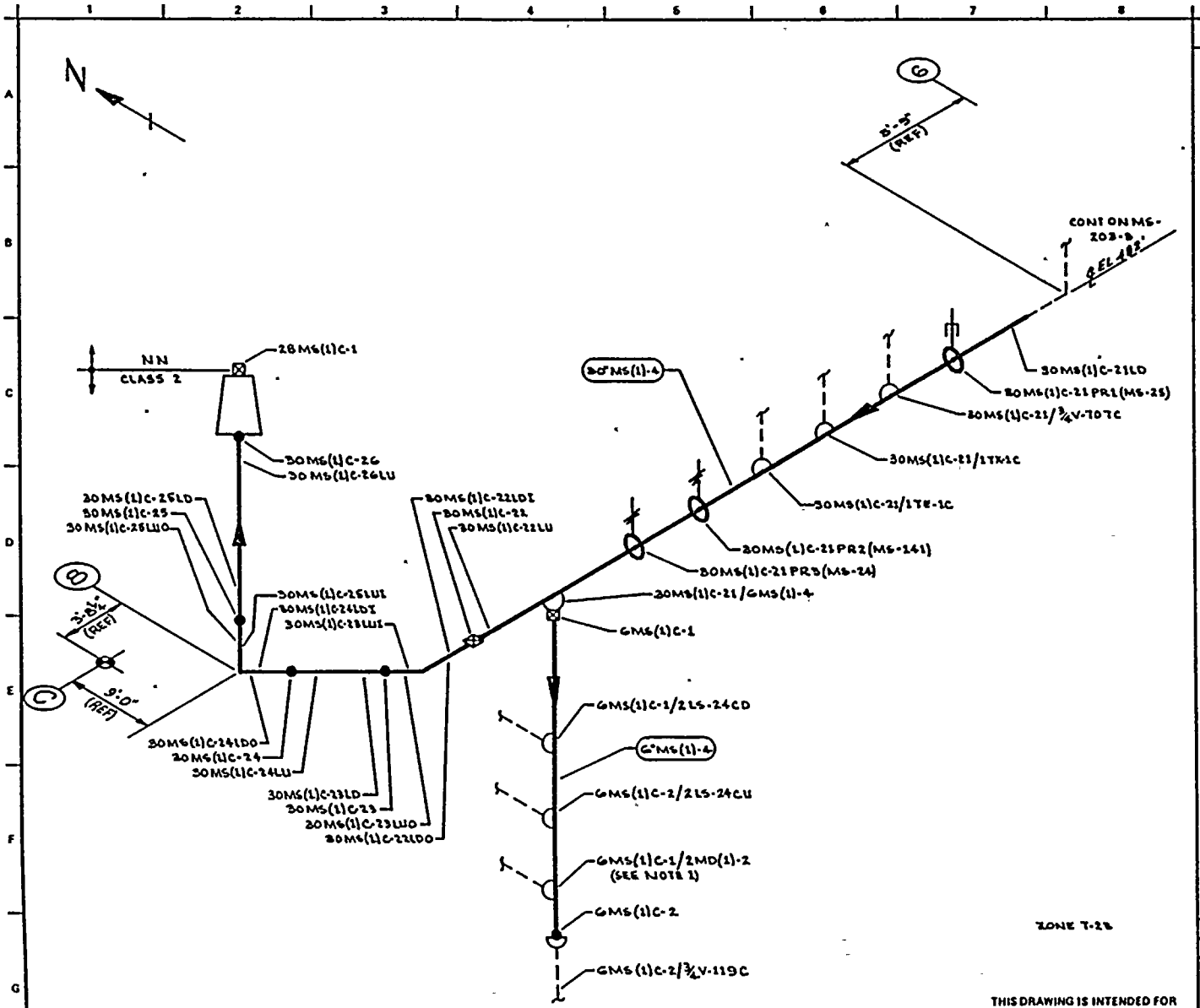
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS (1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
18MS (1)-4	18	80	0.938	SA 106 GR B	CS	UT-12

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE C

DWG NO: MS-203-3 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	9-13-79	DELETED TEE & CORRESPONDING WELDS. ADDED WOL IN C-5	K.M.A.	[illegible]	[illegible]
0	1-9-79	ISSUED FOR USE	K.M.A.	[illegible]	[illegible]
A	4-24-78	ISSUED FOR INFORMATION ONLY	K.M.A.	[illegible]	[illegible]



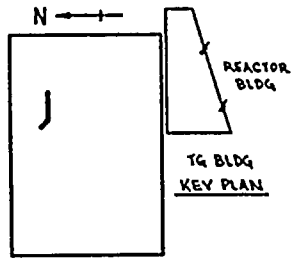
NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVES MO-V-120C & MO-V-111C.

REFERENCES:

BOYEE & CRAIL ISOMETRICS

MS-530-11	REV 4
MS-530-12	REV 3



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
6" MS(1)-4	6	80	0.432	SA 106 GR B	CS	NA
28"MS(1)-4	28	XXX	1.420	SA 155 CL1 KCF 70	CS	UT-2

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE			
A	4-24-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMING	DRAWN: K. M. A. DATE: 2-7-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE C

DWG NO: MS-202-4 REV 0

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 21

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 0

ORIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	26 MS(1)C-19	VALVE TO PIPE	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-203	26 MS(1)C-19 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-203	26 MS(1)C-19/ 3/4 CAP	CAPPED CONN	IWC-2510				X			QCS&I-002				
MS-203	26 MS(1)C-19/ 3/4V-45	TEST CONN	IWC-2510				X			QCS&I-002				
MS-203	26 MS(1)C-19/ 1¼ TE#30	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	26 MS(1)C-19 PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-203	26 MS(1)C-20 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-203	26 MS(1)C-20	PIPE TO PIPE	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-203	26 MS(1)C-20 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				

WRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	26 MS(1)C-20/ 2V-20	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-203	26 MS(1)C-20/ 3/4V-744C	INST. CONN	IWC-2510				X			QCS&I-002				
MS-203	26 MS(1)C-20 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-203	26 MS(1)C-20 PR2	SPRING HGR	C-E-2						X	QCS&I-002				
MS-203	26 MS(1)C-20 PR3	SNUBBER	C-E-2						X	QCS&I-002				
MS-203	26 MS(1)C-21 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-203	26 MS(1)C-21	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-203	26 MS(1)C-21 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-203	26 MS(1)C-21 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 3 of 21

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS (1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	26 MS(1)C-22 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-203	26 MS(1)C-22 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-203	26 MS(1)C-22	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-203	26 MS(1)C-22 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-203	26 MS(1)C-23 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-203	26 MS(1)C-23	PIPE TO REDUCER	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-203	30 MS(1)C-1	REDUCER TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-1 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

MRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-103	30 MS(1)C-2 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-2	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-2 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-2 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-3 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-3 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-3	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-3LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 5 of 21

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS (1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-3PR	HANGER	C-E-2					X		QCS&I-002				
MS-203	20 MS(1)C-3/ 3MD(16)-4	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-203	30 MS(1)C-3/ 3/4V-703	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	30 MS(1)C-3/ 3/4V-704	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	30 MS(1)C-4 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-4	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-4 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-4 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-5 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE C

REVISION: 0

DIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-5 LDO	EL SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-203	30 MS(1)C-5	EL TO PIPE	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-203	30 MS(1)C-5 LD	PIPE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-203	30 MS(1)C-5 PR1	SPRING HGR	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-5 PR2	HANGER	C-E-2					X		QCS&I-002				
MS-203	30 MS(1)C-6 LU	PIPE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-203	30 MS(1)C-6	PIPE TO PIPE	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							
MS-203	30 MS(1)C-6 LD	PIPE LONG SEAM	C-F	X						UTP-10 PTP-1 QCS&I-002	UT-1			
					X									
							X							

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 7 of 21

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS (1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-6 PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-7 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-7	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-7 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-7 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-8 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-8 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-8	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of 21

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-8 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X		X			PTP-1				
										QCS&I-002				
MS-203	30 MS(1)C-8 PR	HANGER	C-E-2					X		QCS&I-002				
MS-203	30 MS(1)C-9 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X		X			PTP-1				
										QCS&I-002				
MS-203	30 MS(1)C-9	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X		X			PTP-1				
										QCS&I-002				
MS-203	30 MS(1)C-9 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X		X			PTP-1				
										QCS&I-002				
MS-203	30 MS(1)C-9 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-9 PR2	SPRING HGR	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-10 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X		X			PTP-1				
										QCS&I-002				
MS-203	30 MS(1)C-10	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X		X			PTP-1				
										QCS&I-002				

HHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: HA

DESCRIPTION: CLASS 2 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-10 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-10 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-11 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-11 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-11	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-11 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-11 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-203	30 MS(1)C-11 PR2	HANGER	C-E-2					X		QCS&I-002				

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS (1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-12 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-12	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-12 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-12 PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-12 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-13 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-13	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-13 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 11 of 21

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-13 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-13 PR	HANGER	C-E-2						X		QCS&I-002			
MS-203	30 MS(1)C-14 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-14 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-14	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-14 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-14 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-14 PR2	SPRING HGR	C-E-2						X	QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 12 of 21

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-14/ 18 MS(1)-4	PIPE TO HOL	C-F		X		X			PTP-1 QCS&I-002				
MS-203	18 MS(1)C-1	HOL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-203	18 MS(1)C-2	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			
MS-203	18 MS(1)C-3	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-12			

UNIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 13 of 21

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS (1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	18 MS(1)C-4	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-5	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-5 PR1	SHUBBER	C-E-2						X	QCS&I-002				
MS-203	18 MS(1)C-5 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-203	18 MS(1)C-6	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-7	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-8	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	18 MS(1)C-9	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 14 of 21

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 1

IMG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	18 MS(1)C-10	PIPE TO HOL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-16 LU	PIPE SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-16	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-16 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-16 PR	HANGER	C-E-2					X		QCS&I-002				
MS-203	30 MS(1)C-17 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-17	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 15 of 21

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-17 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-17 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-203	30 MS(1)C-17/ 1V-706C	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	30 MS(1)C-17 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-18 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-18	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-18 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-18 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-19 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

VRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE C

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-19 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-19	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-19 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-19 PR	HANGER	C-E-2					X		QCS&I-002				
MS-203	30 MS(1)C-20 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-20	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-20 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-20 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 17 of 21

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-21 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-21 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-21	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-21 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-21 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-21/ 3/4V-707C	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	30 MS(1)C-21/ 1TX-1C	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	30 MS(1)C-21/ 1TE-1C	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	30 MS(1)C-21 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 18 of 21

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS (1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE C | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-21 PR3	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-203	30 MS(1)C-21/ 6MS(1)-4	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
MS-203	6 MS(1)C-1	PIPE TO WOL	C-F		X		X			PTP-1 QCS&I-002				
MS-203	6 MS(1)C-1/ 2LS-24CD	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	6 MS(1)C-2/ 2LS-24CU	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	6 MS(1)C-1/ 2MD(1)-2	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-203	6 MS(1)C-2	CAP TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
MS-203	6 MS(1)C-2/. 3/4V-119C	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-203	30 MS(1)C-22 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-22	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS (1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-22 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-22 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-23 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-23 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-23	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-23 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-24 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-203	30 MS(1)C-24	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 20 of 21

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS (1)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: CLASS 2 MAIN STEAM LINE C REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	30 MS(1)C-24 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-24 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-25 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-25 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-25	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-25 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-26 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-203	30 MS(1)C-26	PIPE TO REDUCER	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS (1)-4

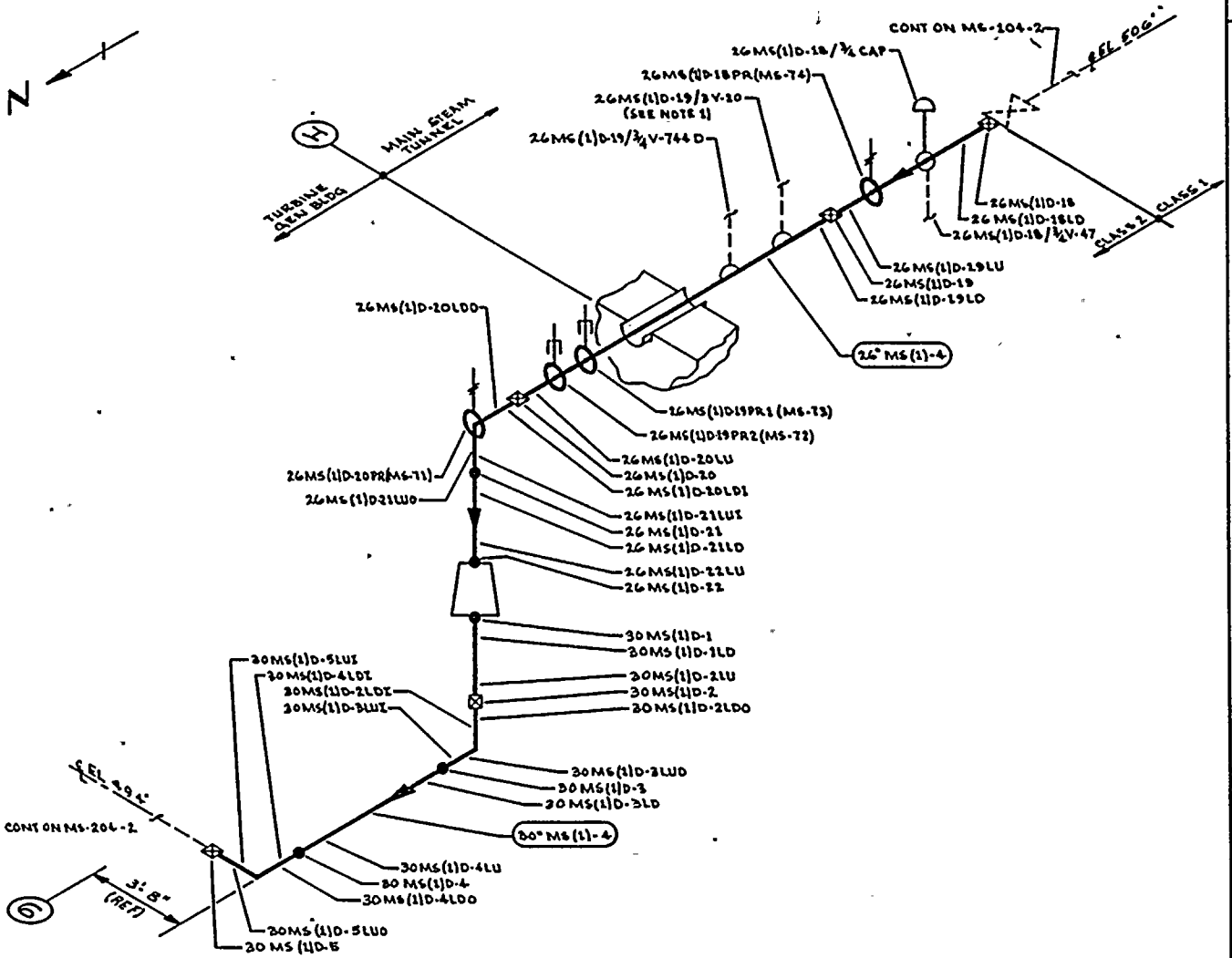
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE C

REVISION: 0

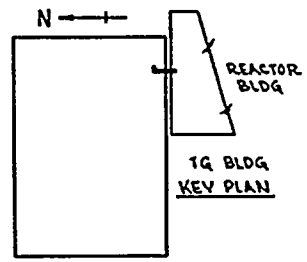
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-203	28 MS(1)C-1	REDUCER TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-2			



ZONES R-41, T-36 & T-26

NOTES:
1. A 2" CONNECTION WITH VISUAL (VT-2) EXAM TERMINATING AT 2" MS-V-20.

REFERENCES:
BOVEE & CRAIL ISOMETRIC
MS-651-1.3 REV 4



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
26" MS(1)-4	26	XXX	1.125	SA 155 CL1 KCF 70	CS	UT-3

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	KMcA	RCJ	WNR
A	4-22-78	ISSUED FOR INFORMATION ONLY	KMcA	RCJ	WNR

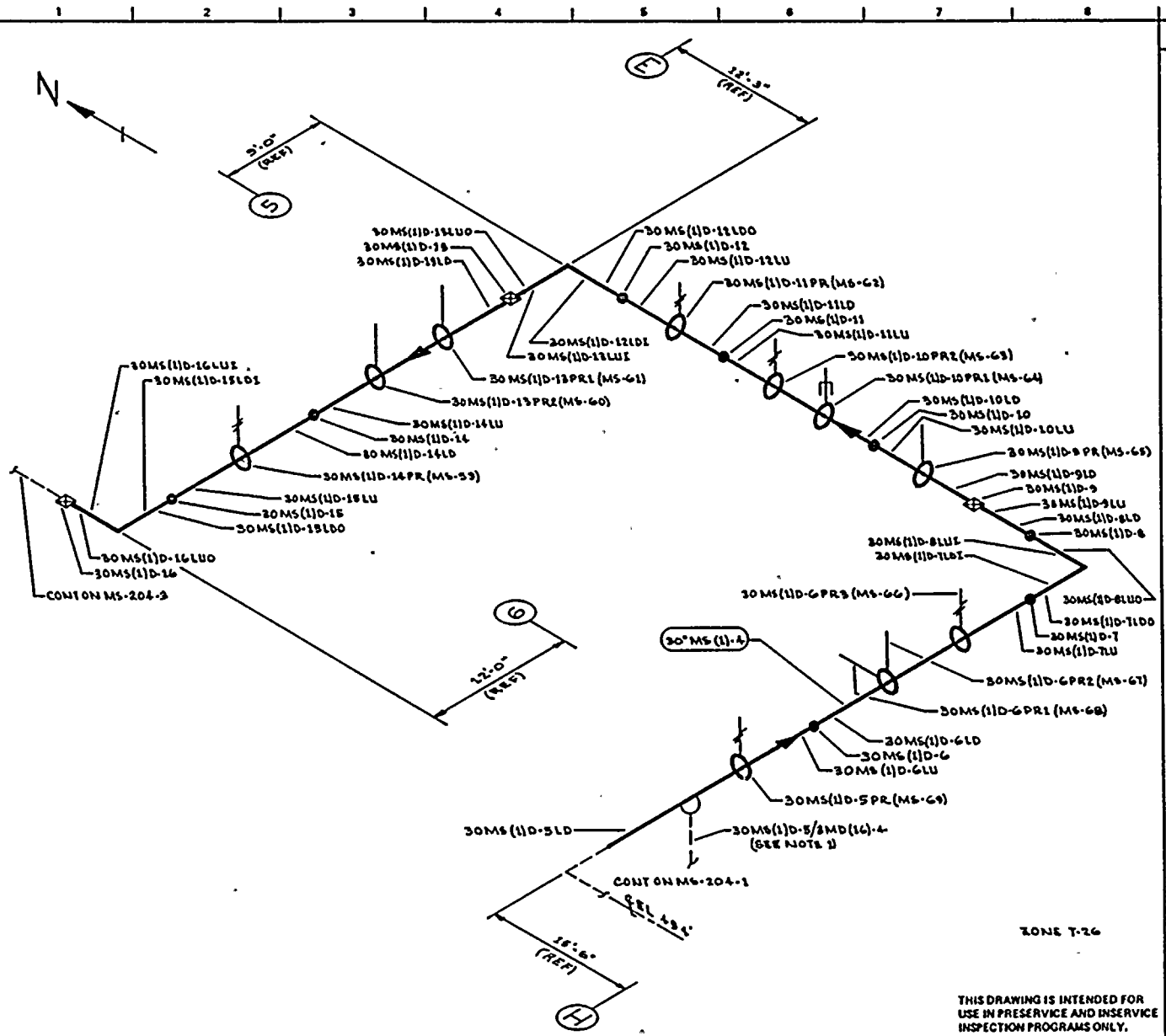
QUALITY CLASS: 1 | ASME CODE CLASS: 2
ENGR: D TIMMINS | DRAWN: K.McA | DATE: 2-8-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE D

DWG NO: MS-204-1 | REV 0

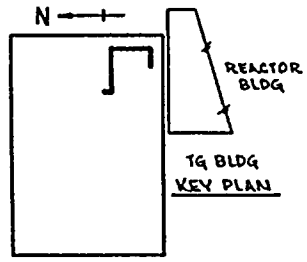


NOTES:

1. EXTEND LEAKAGE EXAM THROUGH DRAINAGE SYSTEM TO VALVES MS-V-72 & MS-V-73.

REFERENCES:

BOVES & CRAIL ISOMETRIC MS-521-4.6 REV 1



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL 1 KCF 70	CS	UT-1

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE	K.M.A		
A	4-20-78	ISSUED FOR INFORMATION ONLY	K.M.A		

QUALITY CLASS: 1 | ASME CODE CLASS: 2

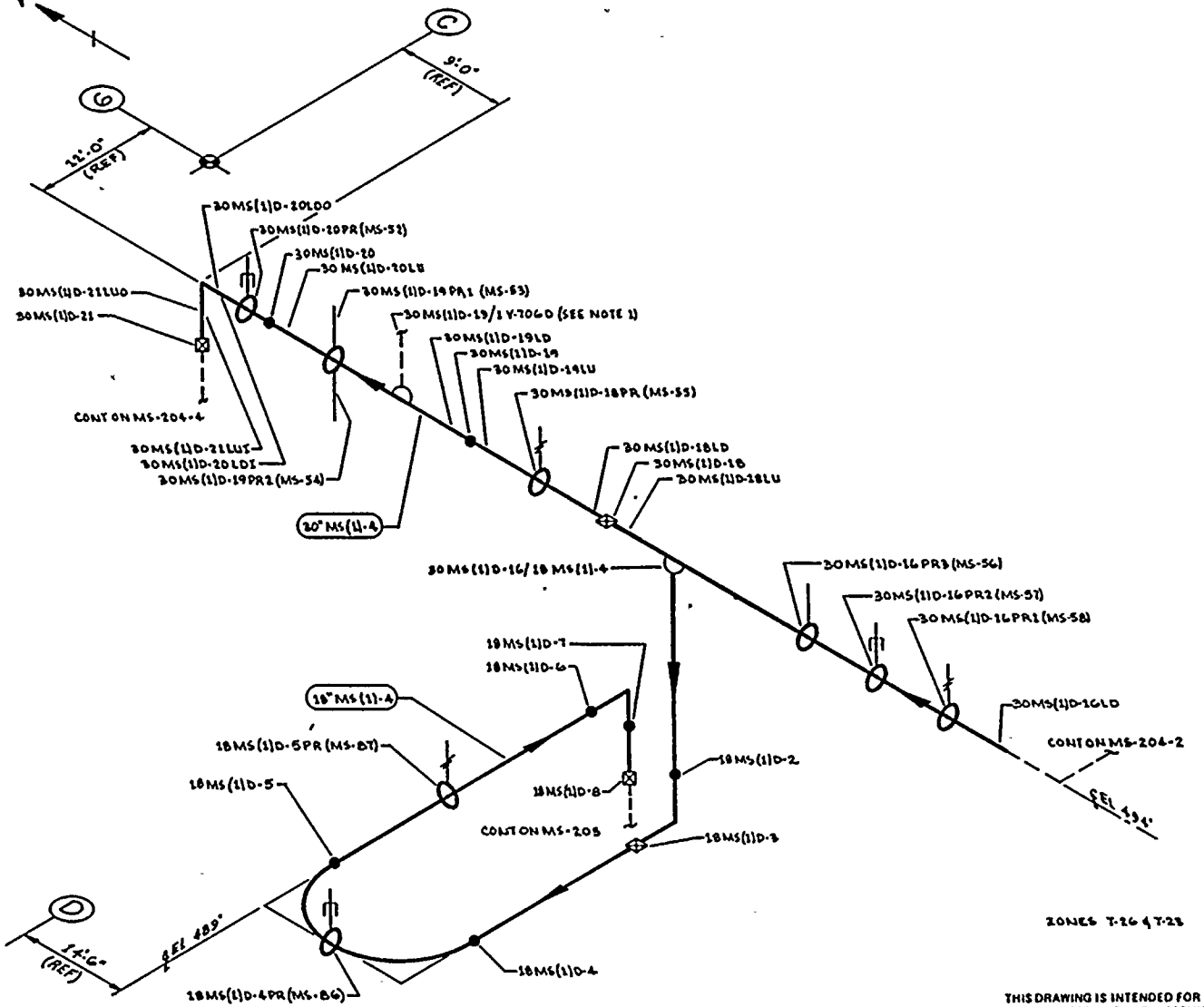
ENGR: D TIMMINS | DRAWN: K.M.A | DATE: 2-17-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
MAIN STEAM LINE D

DWG NO: MS-204-2 | REV 0

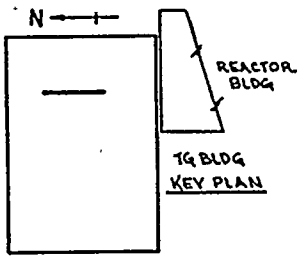


NOTES

1. EXTEND LEAKAGE EXAM THROUGH VALVE MS-V-7060 TO MAIN STEAM PRESSURE AVERAGING MANIFOLD.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
MS-631-7.10 REV 3



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: K. McA. DATE: 2-21-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

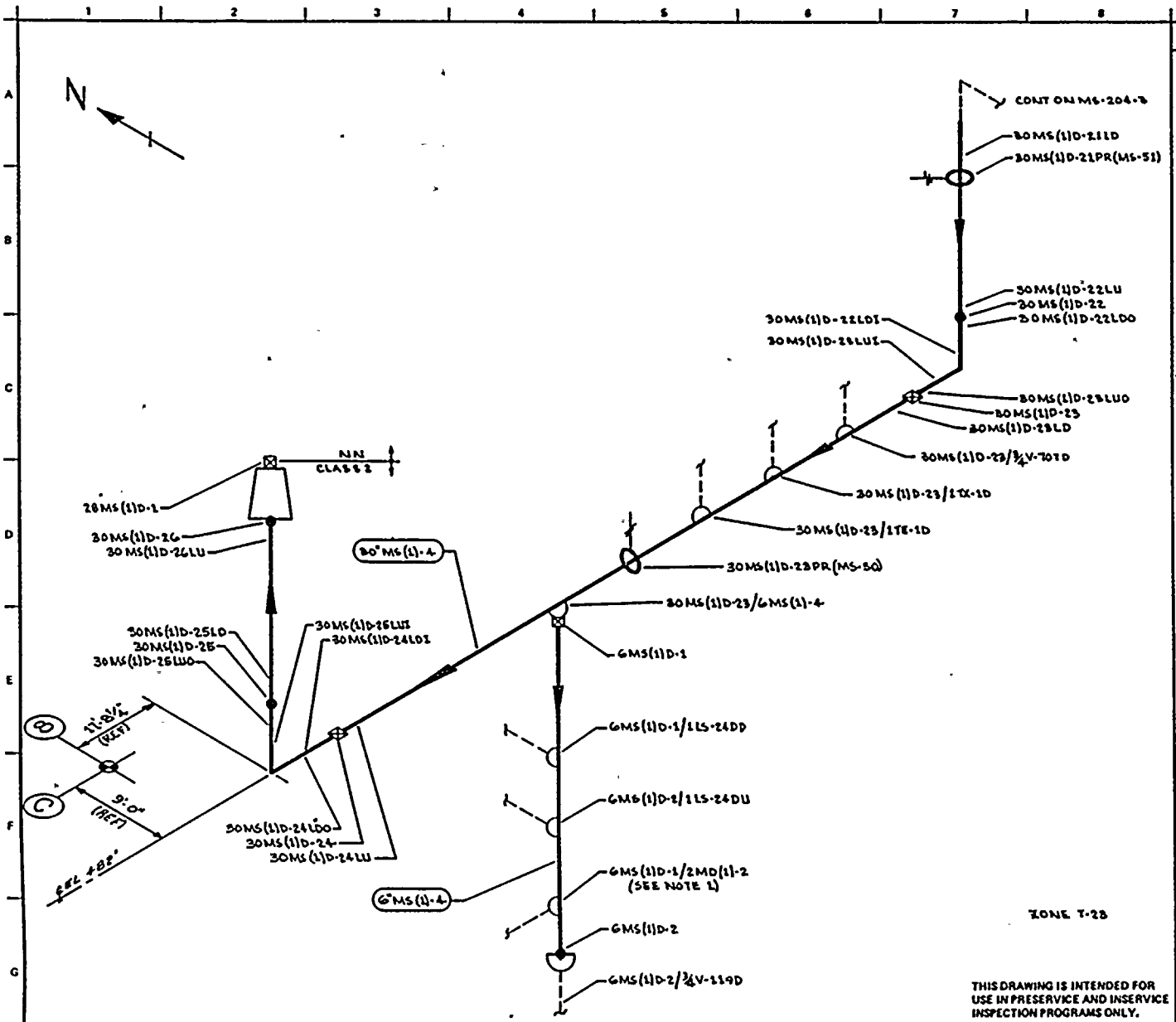
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30" MS(1)-4	30	XXX	1.25	SA 155 CL 1 KCF 70	CS	UT-1
18" MS(1)-4	18	80	0.938	SA 106 GR B	CS	UT-12

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE D

DWG NO: MS-204-3 REV 2

NO	DATE	REVISION	BY	CHKD	APPVD
1	9/13/79	DELETED TEE & CORRESPONDING WELDS. ADDED WOL IN DS			
0	3-9-79	ISSUED FOR USE			
A	4/20/78	ISSUED FOR INFORMATION ONLY			



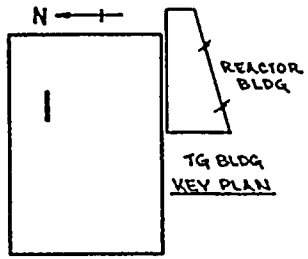
NOTES:

1. EXTEND LEAKAGE EXAM THROUGH VALVES MD-V-120D & MD-V117 D.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

MS-681-11 REV 4
MS-681-12 REV 3



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
30"MS(1)-4	30	XXX	1.25	SA 155 CL1 KCF 70	CS	UT-1
6"MS(1)-4	6	80	0.432	SA 106 GR B	CS	NA
28"MS(1)-4	28	XXX	1.410	SA 155 CL 1 KCF 70	CS	UT-2

NO	DATE	REVISION	BY	CHKD	APPVD
0	1-9-79	ISSUED FOR USE			
A	4-20-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: D TIMMINS	DRAWN: V. McA. DATE: 2-21-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: MAIN STEAM LINE D

DWG NO: MS-204-4 REV 0

WIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	26 MS(1)D-18	VALVE TO PIPE	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-204	26 MS(1)D-18 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-204	26 MS(1)D-18/ 3/4 CAP	CAPPED CONN	IWC-2510				X			QCS&I-002				
MS-204	26 MS(1)D-18/ 3/4 V-47	TEST CONN	IWC-2510				X			QCS&I-002				
MS-204	26 MS(1)D-18 PR	SPRING HGR	C-E-2						X	QCS&I-002				
MS-204	26 MS(1)D-19 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-204	26 MS(1)D-19	PIPE TO PIPE	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-204	26 MS(1)D-19 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: CLASS 2 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	26 MS(1)D-19/ 2 V-20	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-204	26 MS(1)D-19/ 3/4V-744D	INST CONN	IWC-2510				X			QCS&I-002				
MS-204	26 MS(1)D-19 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-204	26 MS(1)D-19 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-204	26 MS(1)D-20 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-204	26 MS(1)D-20	PIPE TO EL	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-204	26 MS(1)D-20 LDI	EL SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-204	26 MS(1)D-20 LDO	EL SEAM	C-F	X						UTP-10	UT-3			
					X					PTP-1				
							X			QCS&I-002				
MS-204	26 MS(1)D-20 PR	SPRING HGR	C-E-2						X	QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	26 MS(1)D-21 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-204	26 MS(1)D-21 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-204	26 MS(1)D-21	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-204	26 MS(1)D-21 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-204	26 MS(1)D-22 LU	PIPE LONG SEAM	C-F	X	X	X				UTP-10 PTP-1 QCS&I-002	UT-3			
MS-204	26 MS(1)D-22	PIPE TO REDUCER	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-3			
MS-204	30 MS(1)D-1	REDUCER TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-1 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

MHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 4 of 20

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-2 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-2	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-2 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-2 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-3 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-3 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-3	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-3 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

UMP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-4 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-4	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-4 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-4 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-5 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-5 LUO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-5	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-5LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS.
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-5/ 3 MD(16)-4	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-204	30 MS(1)D-5PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-6LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-6	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-6LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-6 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-204	30 MS(1)D-6 PR2	HANGER	C-E-2					X		QCS&I-002				
MS-204	30 MS(1)D-6 PR3	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-7LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

UMP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-7	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-7 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-7 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-8 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-8 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-8	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-8LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-9LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WRP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 3 of 20

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-9	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-9LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-9PR	HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-10 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-10	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-10 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-10 PR1	SNUBBER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-10 PR2	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-11 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-11	PIPE TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-11 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-11 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-12 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-12	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-12 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-12 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-13 LUI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-13 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-13	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-13 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-13 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-204	30 MS(1)D-13 PR2	HANGER	C-E-2					X		QCS&I-002				
MS-204	30 MS(1)D-14 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-14	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-14 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

UNIT- 2 PROGRAM PLAN AND SCHEDULE PAGE 11 of 20

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. HS(1)-4 DATE: 1/10/79

PERIOD: N/A DESCRIPTION: CLASS 2 MAIN STEAM LINE D REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD VOL.	METHOD SUR.	METHOD VT-1	METHOD VT-2	METHOD VT-3	METHOD VT-4	PROCEDURE	CAL. BLOCK	INSERVICE REQUIREMENTS	INSERVICE YEAR OF INTERVAL	REMARKS
HS-204	30 HS(1)D-14 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
HS-204	30 HS(1)D-15 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
HS-204	30 HS(2)D-15	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
HS-204	30 HS(1)D-15 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
HS-204	30 HS(1)D-15 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
HS-204	30 HS(1)D-16 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
HS-204	30 HS(1)D-16 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
HS-204	30 HS(1)D-16	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE / /

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-16 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-16 PR1	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-16 PR2	SNUBBER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-16 PR3	HANGER	C-E-2					X		QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 13 of 20

INTERVAL: Baseline | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE D | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30MS(1)D-16/ 18MS(1)-4	PIPE TO WOL	C-F		X		X			PTP-1 QCS&I-002				
MS-204	18 MS(1)D-1	WOL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	18 MS(1)D-2	PIPE TO EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	18 MS(1)D-3	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	18 MS(1)D-4	PIPE TO 180° EL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	18 MS(1)D-4PR	SNUBBER	C-E-2						X	QCS&I-002				
MS-204	18 MS(1)D-5	180° EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 14 of 20

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	18 MS(1)D-5 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	18 MS(1)D-6	PIPE TO EL	C-F	X						UPT-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	18 MS(1)D-7	EL TO PIPE	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	18 MS(1)D-8	PIPE TO WOL	C-F	X						UTP-10	UT-12			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-18 LU	PIPE SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-18	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-18 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

VHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 15 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-18 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-19 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-19	PIPE TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-19 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-19/ 1V-706D	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-204	30 MS(1)D-19 PR1	HANGER	C-E-2					X		QCS&I-002				
MS-204	30 MS(1)D-19 PR2	HANGER	C-E-2					X		QCS&I-002				
MS-204	30 MS(1)D-20 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							x			QCS&I-002				
MS-204	30 MS(1)D-20	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 16 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-20 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-20 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-20 PR	SNUBBER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-21 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-21 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-21	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-21 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-21 PR	SPRING HANGER	C-E-2						X	QCS&I-002				

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 17 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-22 LU	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-22	PIPE TO EL	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-22 LDI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-22 LDO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PPT-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-23 LUI	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-23 LUO	EL SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-23	EL TO PIPE	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				
MS-204	30 MS(1)D-23 LD	PIPE LONG SEAM	C-F	X						UTP-10	UT-1			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 18 of 20

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. MS(1)-4 | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: CLASS 2 MAIN STEAM LINE D | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-23/ 3/4V-707D	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-204	30 MS(1)D-23/ 1TX-1D	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-204	30 MS(1)D-23/ 1TE-1D	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-204	30 MS(1)D-23 PR	SPRING HANGER	C-E-2						X	QCS&I-002				
MS-204	30 MS(1)D-23/ 6MS(1)-4	WOL TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
MS-204	6 MS(1)D-1	PIPE TO WOL	C-F		X		X			PTP-1 QCS&I-002				
MS-204	6 MS(1)D-1/ 1LS-24DD	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-204	6 MS(1)D-2/ 1LS-24DU	INSTR. CONN	IWC-2510				X			QCS&I-002				
MS-204	6 MS(1)D-1/ 2HD(1)-2	DRAIN CONN	IWC-2510				X			QCS&I-002				
MS-204	6 MS(1)D-2	CAP TO PIPE	C-F		X		X			PTP-1 QCS&I-002				
MS-204	6 MS(1)D-2/ 3/4V-119D	DRAIN CONN	IWC-2510				X			QCS&I-002				

UNIT- 2 PROGRAM PLAN AND SCHEDULE PAGE 19 of 20

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. MS(1)-4 DATE: 1/8/79

PERIOD: N/A DESCRIPTION: CLASS 2 MAIN STEAM LINE D REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-24 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-24	PIPE TO EL	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-24 LDI	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-24 LDO	EL SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-25 LUI	EL SEAM	C-F	X	X		X			UPT-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-25 LUO	EL SEAN	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-25	EL TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-25 LD	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			

VIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

DATE: 1/8/79

PERIOD: II/A

DESCRIPTION: CLASS 2 MAIN STEAM LINE D

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-204	30 MS(1)D-26 LU	PIPE LONG SEAM	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	30 MS(1)D-26	PIPE TO REDUCER	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-1			
MS-204	28 MS(1)D-1	REDUCER TO PIPE	C-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-2			

UIP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 1 of 1

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. MS(1)-4

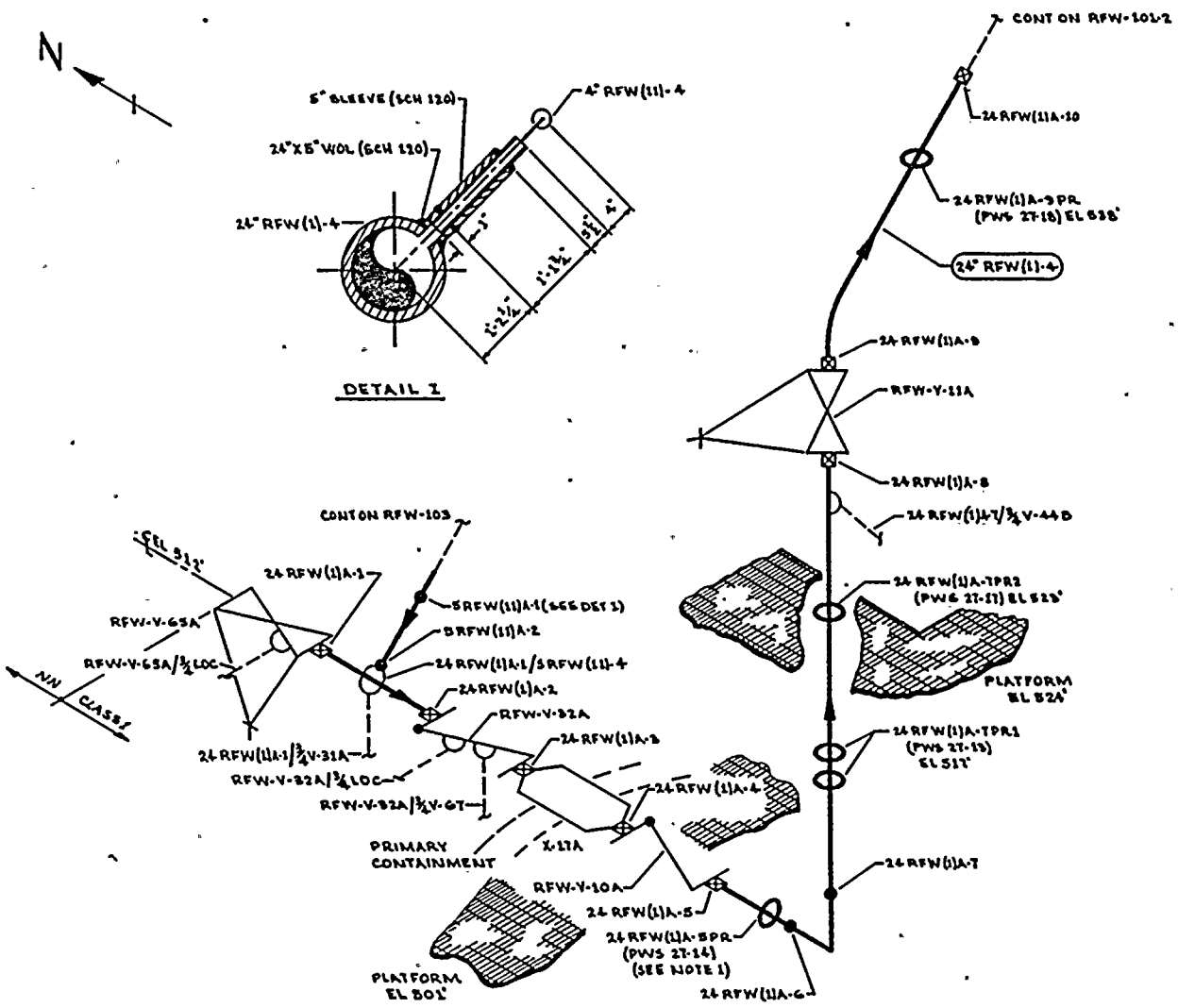
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: MAIN STEM HDR TO BYPASS VALVE

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
MS-205	24 MS(1)-1	CAP TO PIPE	C-F	X						UTP-10	UT-6			
					X					PTP-1				
							X			QCS&I-002				
MS-205	24 MS(1)-1/ 18 MS(1)-4D	WOL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
MS-205	24 MS(1)-1/ 18 MS(1)-4C	WOL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
MS-205	24 MS(1)-1/ 18 MS(1)-4A	WOL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
MS-205	24 MS(1)-1/ 18 MS(1)-4B	WOL TO PIPE	C-F		X					PTP-1				
							X			QCS&I-002				
MS-205	24 MS(1)-2	PIPE TO VALVE	C-F	X						UTP-10	UT-6			
					X					PTP-1				
							X			QCS&I-002				



NOTES:

1. ACCESS TO WELDS 24 RFW(1)A-5 & 24 RFW(1)A-6 REQUIRES REMOVAL OF 24 RFW(1)A-5PR.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RFW-418-3 REV 1
RFW-418-4 REV 1
RFW-418-5,6 REV 1

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RFW(1)-4	24	120	1.812	SA 106 GR B	CS	UT-5
5" RFW(11)-4	5	120	0.500	SA 106 GR B	CS	UT-32

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE			
A	6-21-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

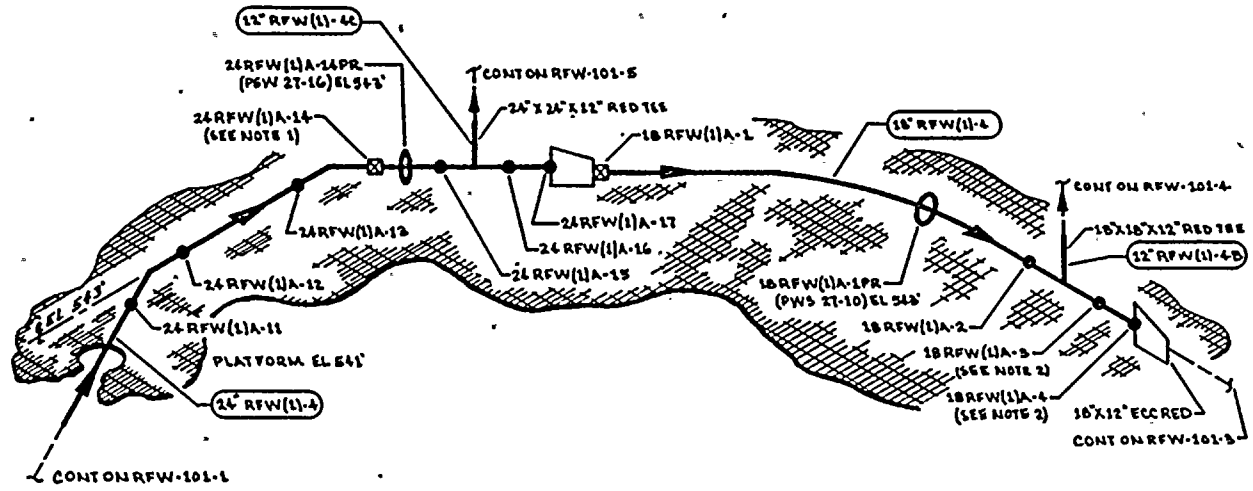
ENGR: D TIMMINS | DRAWN: | DATE: 3-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: REACTOR FEED WATER LINE A

DWG NO: RFW-101-1 | REV 0



NOTES:

1. ACCESS TO WELD 24 RFW(1)A-14 REQUIRES REMOVAL OF 24 RFW(1)A-14 PR.
2. WELDS 18 RFW(1)A-3 & 18 RFW(1)A-4 ARE FITTING TO FITTING. SPACING IS 3½".

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RFW-418-5.6 REV 1
RFW-418-7.8 REV 1

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMING	DRAWN: K. McA. DATE: 3-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

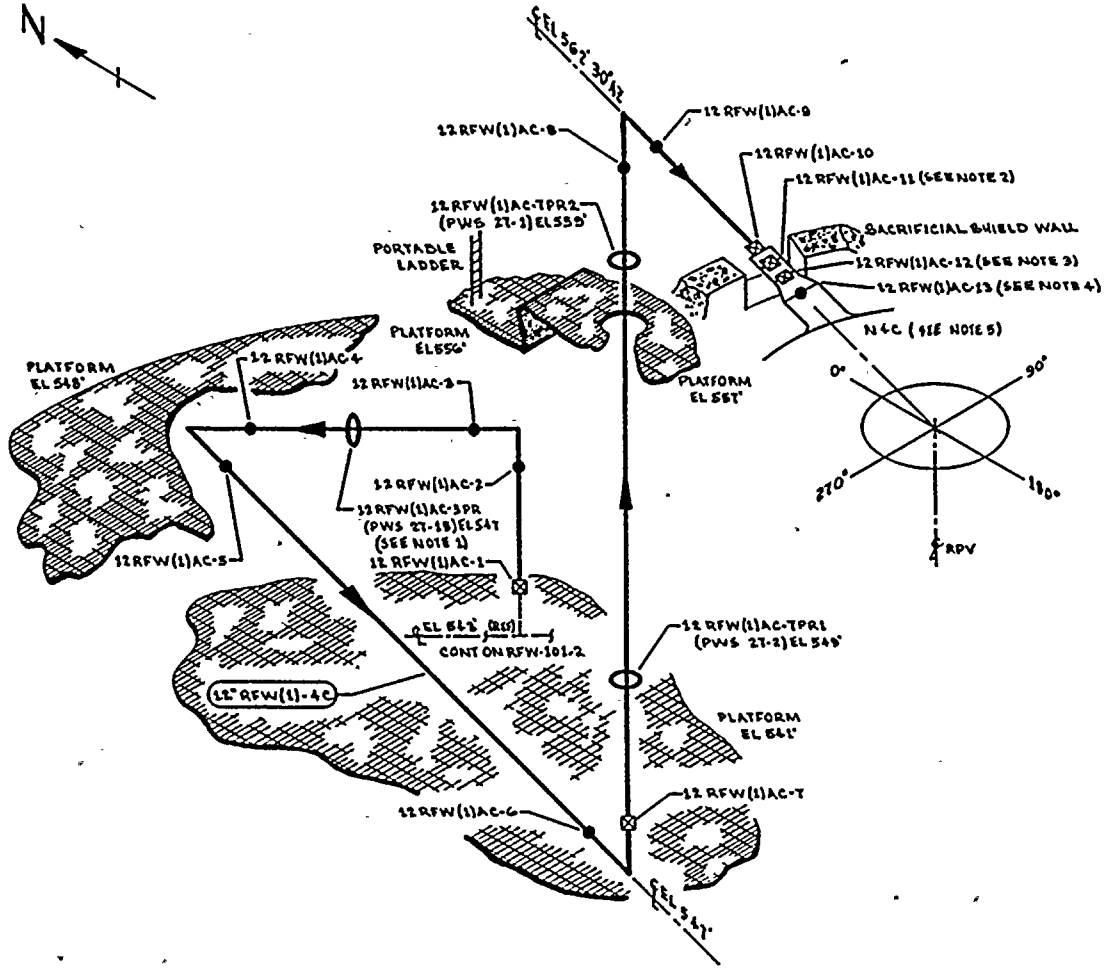
PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RFW(1)-4	24	120	1.812	SA 106 GR B	CS	UT-5
18" RFW(1)-4	18	120	1.375	SA 106 GR B	CS	UT-11

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	K.M.A	DJH	
A	4-21-78	ISSUED FOR INFORMATION ONLY	K.M.A	DCJ	

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: REACTOR FEED WATER LINE A

DWG NO. RFW-101-2 REV 0



NOTES:

1. ACCESS TO WELDS 12 RFW(1)AC-3 & 12 RFW(1)AC-4 REQUIRES REMOVAL OF 12 RFW(1)AC-3PR.
2. WELD 12 RFW(1)AC-11 UTILIZES CAL BLOCK UT-106.
3. WELD 12 RFW(1)AC-12 UTILIZES CAL BLOCK UT-105.
4. WELD 12 RFW(1)AC-13 UTILIZES CAL BLOCK UT-102.
5. FOR NOZZLE ASSEMBLY DETAILS SEE RPV-108.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RFW-418-3.10 REV 2

CBI NUCLEAR CO.
55, REV 8, N4 NOZZLE

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
12" RFW(1)-4	12	120	1.000	SA 106 GR B	CS	UT-15

NO	DATE	REVISION	BY	CHKD	APPVD
2	8-30-79	ADDED NOTE 5.	KMA	RWB	RWB
1	1-10-79	CAL BLOCK REFERENCE CHANGED (NOTE 2)	KMA	RWB	RWB
0	11-27-78	ISSUED FOR USE	KMA	RWB	RWB
A	6-21-78	ISSUED FOR INFORMATION ONLY	KMA	DCJ	RWB

QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D TIMMINS | DRAWN: K M A | DATE: 3-2-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE AC

DWG NO. RFW-101-5 | REV 2

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	RFW-V-65A/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RFW-101	RFW-V-65A	VALVE BODY	B-M-2				X			QCS&I-002				
								X		QCS&I-002				
RFW-101	RFW-V-65A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RFW-101	24RFW(1)A-1	VALVE PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-1/ 3/4V-31A	TEST CONN	B-P				X			QCS&I-002				
RFW-101	24RFW(1)A-1/ 5RFW(11)-4	PIPE TO WOL	B-J		X					PTP-1				
							X			QCS&I-002				
RFW-101	5RFW(11)A-2	SLEEVE TO WOL	B-J	X						UTP-10	UT-32			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	5RFW(11)A-1	SLEEVE TO SLEEVE	B-J	X						UTP-10	UT-32			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-2	PIPE TO VALVE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	RFW-V-32A/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 10

INTERVAL.: BASELINE | SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	RFW-V-32A	VALVE BODY	B-M-2					X		QCS&I-002				
RFW-101	RFW-V-32A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RFW-101	RFW-V-32A/ 3/4V-67	TEST CONN	B-P				X			QCS&I-002				
RFW-101	24RFW(1)A-3	VALVE TO PENE.	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-4	PENE. TO VALVE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	RFW-V-10A	VALVE BODY	B-M-2					X		QCS&I-002				
RFW-101	RFW-V-10A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RFW-101	24RFW(1)A-5	VALVE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-5PR	PWS												NOTE 1
RFW-101	24RFW(1)A-6	PIPE TO EL	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				

MHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER LINE A | REVISION: 0

FIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	24RFW(1)A-7	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-5			
RFW-101	24RFW(1)A-7PR1	PWS												NOTE 1
RFW-101	24RFW(1)A-7PR2	PWS												NOTE 1
RFW-101	24RFW(1)A-7/ 3/4V-440	TEST CONN	B-P				X			QCS&I-002				
RFW-101	24RFW(1)A-8	PIPE TO VALVE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-5			
RFW-101	RFW-V-11A	VALVE BODY	B-M-2					X		QCS&I-002				
RFW-101	RFW-V-11A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RFW-101	24RFW(1)A-9.	VALVE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-5			
RFW-101	24RFW(1)A-9PR	PWS												NOTE 1
RFW-101	24RFW(1)A-10	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-5			
RFW-101	24RFW(1)A-11	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-5			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER LINE A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	24RFW(1)A-12	EL TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-13	PIPE TO EL	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-14	EL TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	24RFW(1)A-14PR	PWS												NOTE 1
RFW-101	24RFW(1)A-15	PIPE TO TEE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AC-1	TEE TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AC-2	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AC-3	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AC-3PR	PWS												NOTE 1

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE A

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	12RFW(1)AC-4	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-5	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-6	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-7	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-7PR1	PHS												NOTE 1
RFW-101	12RFW(1)AC-7PR2	PHS												NOTE 1
RFW-101	12RFW(1)AC-8	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-9	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AC-10	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 10

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFH(1)-4, RFH(11)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER LINE A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFH-101	12RFH(1)AC-11	SEE TO SES	B-F	X						UTP-31	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RFH-101	12RFH(1)AC-12	SES TO SE	B-J	X						UTP-31	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RFH-101	12RFH(1)AC-13	SE TO N4	B-F	X						UTP-31	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RFH-101	24RFH(1)A-16	TEE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFH-101	24RFH(1)A-17	PIPE TO RED.	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFH-101	18RFH(1)A-1	RED. TO PIPE	B-J	X						UTP-10	UT-11			
					X					PTP-1				
							X			QCS&I-002				
RFH-101	18RFH(1)A-1PR	PHS												NOTE 1
RFH-101	18RFH(1)A-2	PIPE TO TEE	B-J	X						UTP-10	UT-11			
					X					PTP-1				
							X			QCS&I-002				

HHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	12RFW(1)AB-1	TEE TO PIPE	B-J	X						UTP-10	UT-11			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AB-1PR	PHS												NOTE 1
RFW-101	12RFW(1)AB-2	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AB-3	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AB-3PR	PHS												NOTE 1
RFW-101	12RFW(1)AB-4	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AB-5	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AB-5PR1	PHS												NOTE 1
RFW-101	12RFW(1)AB-5PR2	PHS												NOTE 1
RFW-101	12RFW(1)AB-6	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	12RFW(1)AB-7	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AB-8	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			
RFW-101	12RFW(1)AB-9	SEE TO SES	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-10			
RFW-101	12RFW(1)AB-10	SES TO SE	B-J	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-10			
RFW-101	12RFW(1)AB-11	SE TO N4	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-10			
RFW-101	18RFW(1)A-3	TEE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-11			
RFW-101	18RFW(1)A-4	PIPE TO RED.	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-11			
RFW-101	12RFW(1)AA-1	RED. TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-15			

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 9 of 10

INTERVAL.: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE A

REVISION: 0

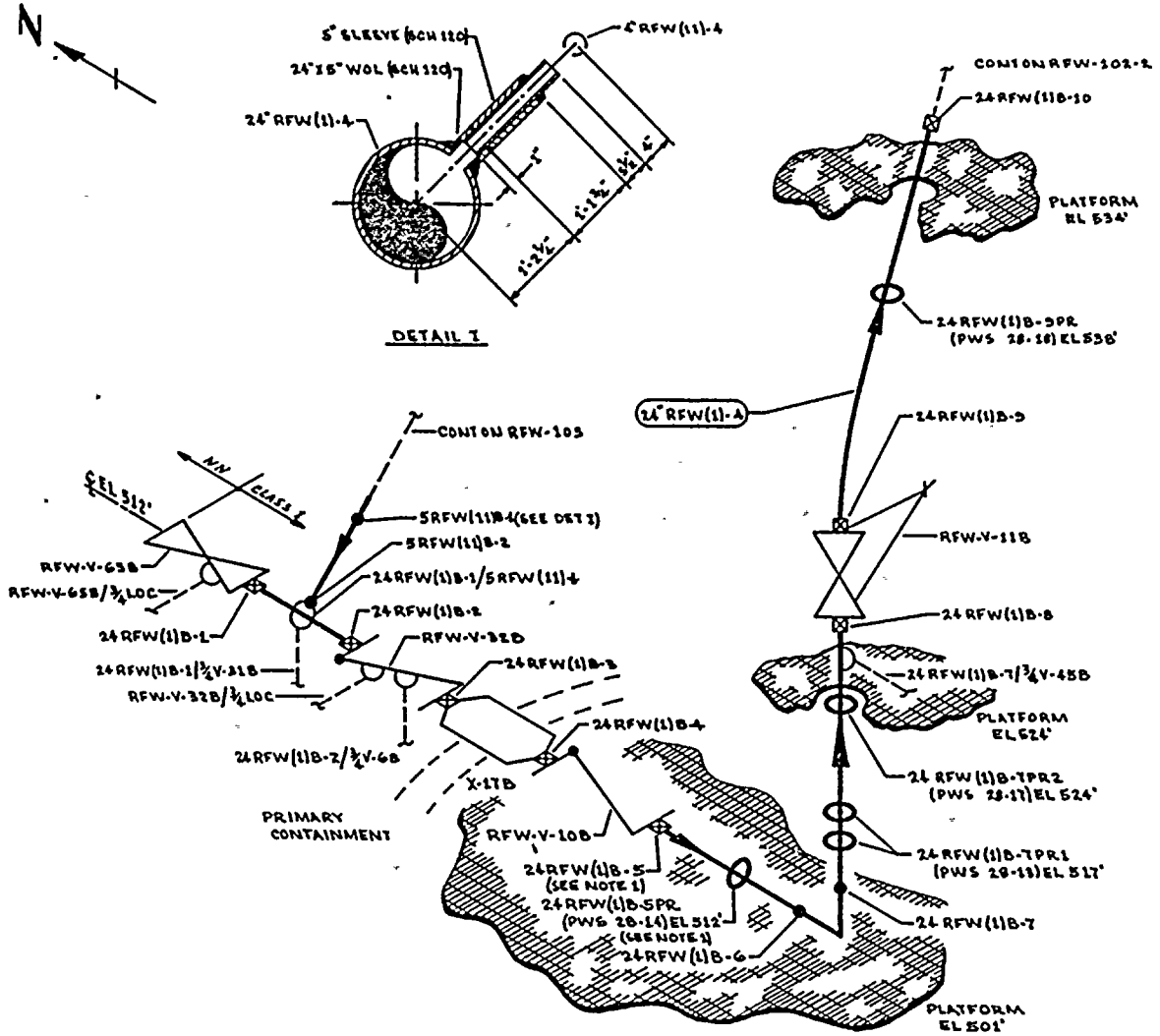
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	12RFW(1)AA-1PR	PWS												NOTE 1
RFW-101	12RFW(1)AA-2	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AA-3	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AA-3PR1	PWS												NOTE 1
RFW-101	12RFW(1)AA-3PR2	PWS												NOTE 1
RFW-101	12RFW(1)AA-4	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AA-5	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AA-5PR1	PWS												NOTE 1
RFW-101	12RFW(1)AA-5PR2	PWS												NOTE 1
RFW-101	12RFW(1)AA-6	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				

MHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 10 of 10

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR FEEDWATER LINE A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-101	12RFW(1)AA-7	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AA-8	PIPE TO SEE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AA-9	SEE TO SES	B-F	X						UTP-31	UT-106			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AA-10	SES TO SE	B-J	X						UTP-31	UT-105			
					X					PTP-1				
							X			QCS&I-002				
RFW-101	12RFW(1)AA-11	SE TO N4	B-F	X						UTP-31	UT-102			
					X					PTP-1				
							X			QCS&I-002				



NOTES:

1. ACCESS TO WELDS 24 RFW(1)B-5 & 24 RFW(1)B-6 REQUIRES REMOVAL OF 24 RFW(1)B-5PR.

REFERENCES:

BOVEE & CRAIL ISOMETRICS

RFW-419-3	REV 1
RFW-419-4	REV 1
RFW-419-5.7	REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RFW(1)-4	24	120	1.812	SA 106 GR B	CS	UT-5
5" RFW(11)-4	5	120	0.500	SA 106 GR B	CS	UT-32

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE			
A	4-11-78	ISSUED FOR INFORMATION ONLY			

QUALITY CLASS: 1 | ASME CODE CLASS: 1

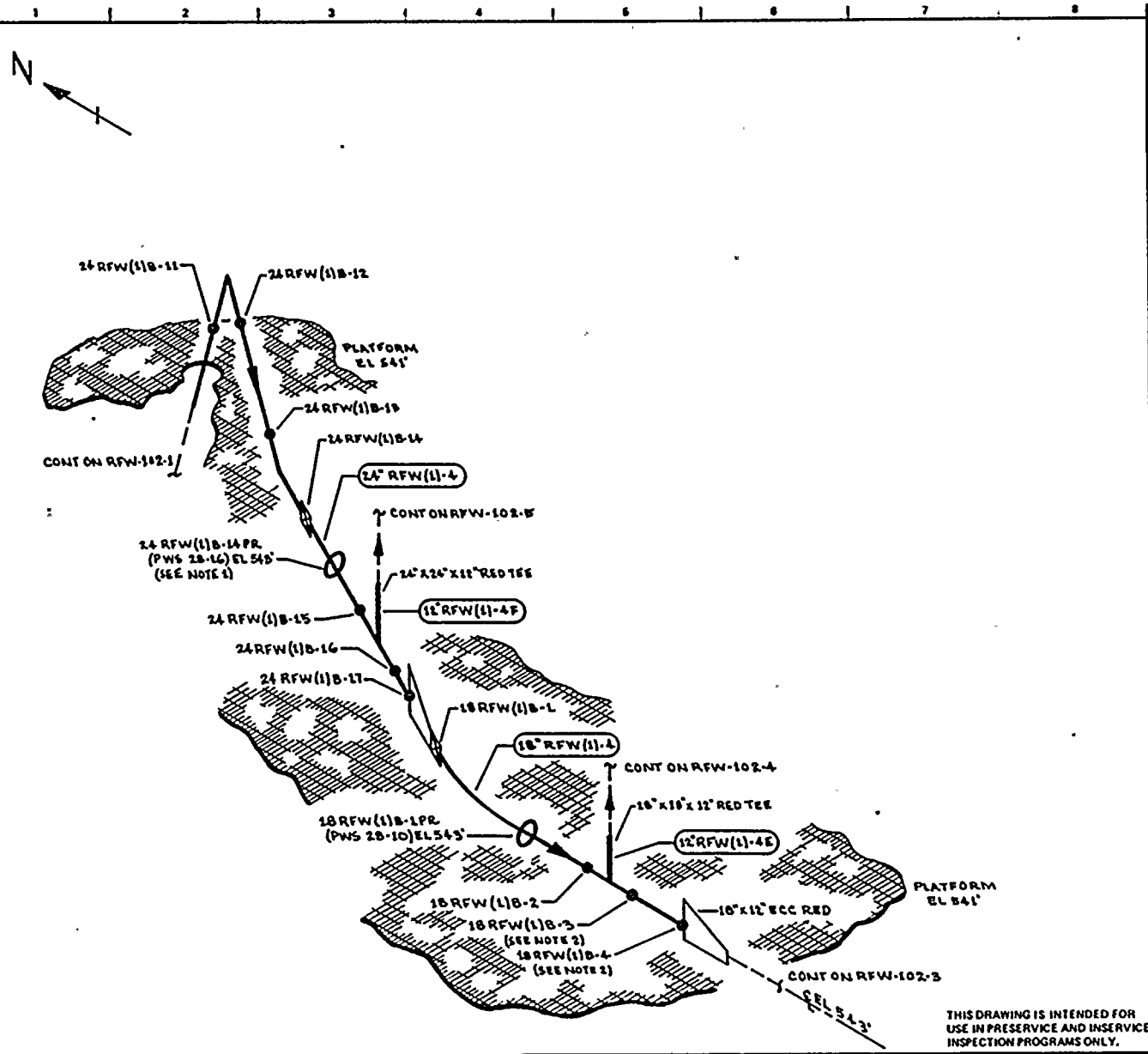
ENGR: D TIMMINS | DRAWN: | DATE: 3-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR FEED WATER LINE B

DWG NO: RFW-102-1 | REV 0



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

1. ACCESS TO WELD 24 RFW(1)B-14 REQUIRES REMOVAL OF 24 RFW(1)B-14PR.
2. WELDS 18 RFW(1)B-3 & 18 RFW(1)B-4 ARE FITTING TO FITTING, SPACING IS 3½".

REFERENCES:

BOVEE & CRAIL ISOMETRIC RFW-419-E-7 REV 3

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RFW (1)-4	24	120	1.812	SA 106 GR B	CS	UT-5
18" RFW(1)-4	18	120	1.375	SA 106 GR B	CS	UT-11

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KM&A	DJ	DJ
A	6-21-78	ISSUED FOR INFORMATION ONLY	KM&A	DCJ	DJP

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: K.M.&A. | DATE: 3-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: REACTOR FEED WATER LINE B

DWG NO: RFW-102-2 | REV 0

VHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 11

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFW-4, RFW(11)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	RFW-V-65B 3/4 LOC	STEAM LEAK OFF	B-P				X			QCS&I-002				
RFW-102	RFW-V-65B	VALVE BODY	B-M-2					X		QCS&I-002				
RFW-102	RFW-V-65B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RFW-102	24RFW(1)B-1	VALVE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-1/ 3/4V-31B	TEST CONN	B-P				X			QCS&I-002				
RFW-102	24RFW(1)B-1/ 5RFW(11)-4	PIPE TO WOL	B-J		X					PTP-1				
							X			QCS&I-002				
RFW-102	5RFW(11)B-2	SLEEVE TO WOL	B-J	X						UTP-10	UT-32			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	5RFW(11)B-1	SLEEVE TO SLEEVE	B-J	X						UTP-10	UT-32			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-2	PIPE TO VALVE	B-J	X						UPT-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 2 of 11

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR FEEDWATER LINE B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	RFW-V-32B/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RFW-102	RFW-V-32B	VALVE BODY	B-M-2					X		QCS&I-002				
RFW-102	RFW-V-32B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RFW-102	RFW-V-32B/ 3/4V-68	TEST CONN	B-P				X			QCS&I-002				
RFW-102	24RFW(1)B-3	VALVE TO PENE.	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-4	PENE. TO VALVE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	RFW-V-10B	VALVE BODY	B-M-2					X		QCS&I-002				
RFW-102	RFW-V-10B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RFW-102	24RFW(1)B-5	VALVE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-5PR	PWS												NOTE 1

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	24RFW(1)B-6	PIPE TO EL	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-7	EL TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-7PR1	PHS												NOTE 1
RFW-102	24RFW(1)B-7PR2	PHS												NOTE 1
RFW-102	24RFW(1)B-7/ 3/4V-45B	TEST CONN	B-P				X			QCS&I-002				
RFW-102	24RFW(1)B-8	PIPE TO VALVE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	RFW-V-11B	VALVE BODY	B-M-2					X		QCS&I-002				
RFW-102	RFW-V-11B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RFW-102	24RFW(1)B-9	VALVE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-9PR	PHS												NOTE 1

WRP- 2 PROGRAM PLAN AND SCHEDULE PAGE 4 of 11

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR FEEDWATER LINE B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	24RFW(1)B-10	PIPE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-11	PIPE TO EL	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-12	EL TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-13	PIPE TO EL	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-14	EL TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-14PR	PHS												NOTE 1
RFW-102	24RFW(1)B-15	PIPE TO TEE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-1	TEE TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				

NHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 5 of 11

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR FEEDWATER LINE B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	12RFW(1)BF-2	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-3	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-3PR	PWS												NOTE 1
RFW-102	12RFW(1)BF-4	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-5	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-6	PIPE TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-7	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-8	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-8PR	PWS												NOTE 1

UNIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	12RFW(1)BF-8PR2	PWS												NOTE 1
RFW-102	12RFW(1)BF-9	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-10	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-11	PIPE TO SEE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-12	SEE TO SES	B-F	X						UTP-31	UT-106			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-13	SES TO SE	B-J	X						UTP-31	UT-105			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BF-14	SE TO N4	B-F	X						UPT-31	UT-102			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	24RFW(1)B-16	TEE TO PIPE	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 11

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER LINE B | REVISION: 0

EXIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	24RFW(1)B-17	PIPE TO RED.	B-J	X						UTP-10	UT-5			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	18RFW(1)B-1	RED. TO PIPE	B-J	X						UTP-10	UT-11			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	18RFW(1)B-1PR	PHS												NOTE 1
RFW-102	18RFW(1)B-2	PIPE TO TEE	B-J	X						UTP-10	UT-11			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-1	TEE TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-1PR	PHS												NOTE 1
RFW-102	12RFW(1)BE-2	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-3	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-3PR	PHS												NOTE 1

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE / ___

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE B

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	12RFW(1)BE-4	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-5	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-5A	PIPE TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-5PR	PWS												NOTE 1
RFW-102	12RFW(1)BE-5PR	PWS												NOTE 1
RFW-102	12RFW(1)BE-6	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-7	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BE-8	PIPE TO SEE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE B

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	12RFW(1)BE-9	SEE TO SES	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-106			
RFW-102	12RFW(1)BE-10	SES TO SE	B-J	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-105			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 9 of 11

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER LINE B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	12RFW(1)BE-11	SE TO N4	B-F	X						UTP-31	UT-102			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	18RFW(1)B-3	TEE TO PIPE	B-J	X						UTP-10	UT-11			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	18RFW(1)B-4	PIPE TO RED.	B-J	X						UTP-10	UT-11			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-1	RED. TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-1PR	PWS												NOTE 1
RFW-102	12RFW(1)BD-2	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-3	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-3PR1	PWS												NOTE 1
RFW-102	12RFW(1)BD-3PR2	PWS												NOTE 1

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER LINE B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	12RFW(1)BD-4	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-5	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-5PR1	PWS												NOTE 1
RFW-102	12RFW(1)BD-5PR2	PWS												NOTE 1
RFW-102	12RFW(1)BD-6	PIPE TO EL	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-7	EL TO PIPE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-8	PIPE TO SEE	B-J	X						UTP-10	UT-15			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-9	SEE TO SES	B-F	X						UTP-31	UT-106			
					X					PTP-1				
							X			QCS&I-002				
RFW-102	12RFW(1)BD-10	SES TO SE	B-J	X						UTP-31	UT-105			
					X					PTP-1				
							X			QCS&I-002				

UNIT- 2 PROGRAM PLAN AND SCHEDULE PAGE 11 of 11

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RFW(1)-4, RFW(11)-4 DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR FEEDWATER LINE B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-102	12RFW(1)BD-11	SE TO N4	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			

VHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(11)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-103	6RFW(11)-1	VALVE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	6RFW(11)-2	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	6RFW(11)-2/ 3/4V-71	TEST CONN	B-P				X			QCS&I-002				
RFW-103	6RFW(11)-3	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	6RFW(11)-3PS	4 WELDED LUGS	B-K-1	X						UTP-10	UT-28			
					X					PTP-1				
		RIGID HANGER	B-K-2					X		QCS&I-002				
RFW-103	6RFW(11)-4	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	6RFW(11)-5	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	6RFW(11)-6	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 3

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RFW(11)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR FEEDWATER | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-103	6RFW(11)-7	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	6RFW(11)-7PR	SPRING HANGER	B-K-2						X	QCS&I-002				
RFW-103	6RFW(11)-8	PIPE TO TEE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	4RFW(11)A-1	TEE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	4RFW(11)A-2	PIPE TO EL	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	4RFW(11)A-3	EL TO SLEEVE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	6RFW(11)-9	TEE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	6RFW(11)-10	PIPE TO RED.	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

MIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RFW(11)-4

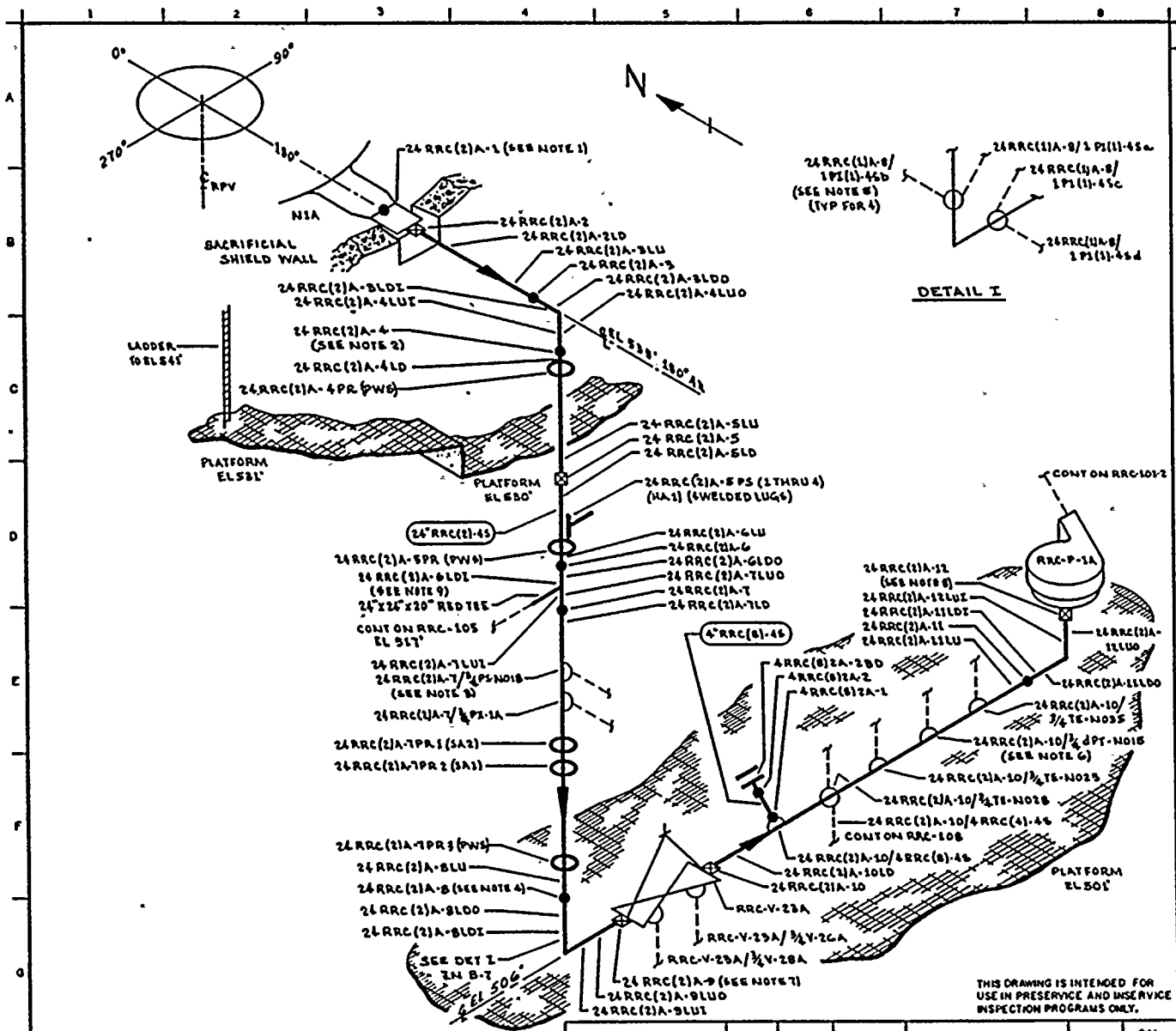
DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR FEEDWATER

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RFW-103	4RFW(11)B-1	RED. TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	4RFW(11)B-1PR	RIGID HANGER	B-K-2					X		QCS&I-002				
RFW-103	4RFW(11)B-2	PIPE TO EL	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	4RFW(11)B-3	EL TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	4RFW(11)B-3PR	SPRING HANGER	B-K-2						X	QCS&I-002				
RFW-103	4RFW(11)B-4	PIPE TO EL	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RFW-103	4RFW(11)B-5	EL TO SLEEVE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				



THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

NOTES:

1. WELD 24RRC(2)A-1 UTILIZES CAL BLOCK UT-101.
2. ACCESS TO WELD 24 RRC(2)A-4 REQUIRES REMOVAL OF 24RRC(2)A-4PR.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-78C) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. ACCESS TO WELD 24 RRC(2)A-8 REQUIRES REMOVAL OF 24 RRC(2)A-7PR4.
5. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATIONS (X-40c, X-40d, X-61a, & X-61b) THROUGH EXCESS FLOW CHECK VALVES TO INSTRUMENT TUBING CONNECTIONS.
6. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-70C) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
7. WELD 24 RRC(2)A-9 TO FITTING TO FITTING.
8. WELD 24 RRC(1)A-12 TO FITTING TO FITTING.
9. LONGITUDINAL WELDS LOCATED INBOARD & OUTBOARD ON THE RED TEE, WITH RESPECT TO THE RPV, ARE 90° FROM THE BRANCH CONNECTION.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV E
762 E 538 SH1	REV 5
762 E 538 SH2	REV 3
761 E 735	REV 6
131 C 7587	REV 3
131 C 7686	REV 4

CBI NUCLEAR CO.

48, REV 4, N1 NOZZLE ASSEMBLY

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RRC(2)-45	24	XXX	1.140	SA 358 GR 304 CL 1	SS	UT-7
4" RRC(8)-45	4	40	0.237	SA 376 TP 304	SS	UT-21

NO	DATE	REVISION	BY	CHKD	APPVD
1	7-17-79	CORRECTED TEE TO WELDED TEE, ZN D-6	KMcA	RR	
0	11-27-78	ISSUED FOR USE	KMcA	RR	
A	5-29-78	ISSUED FOR INFORMATION ONLY	KMcA	RR	

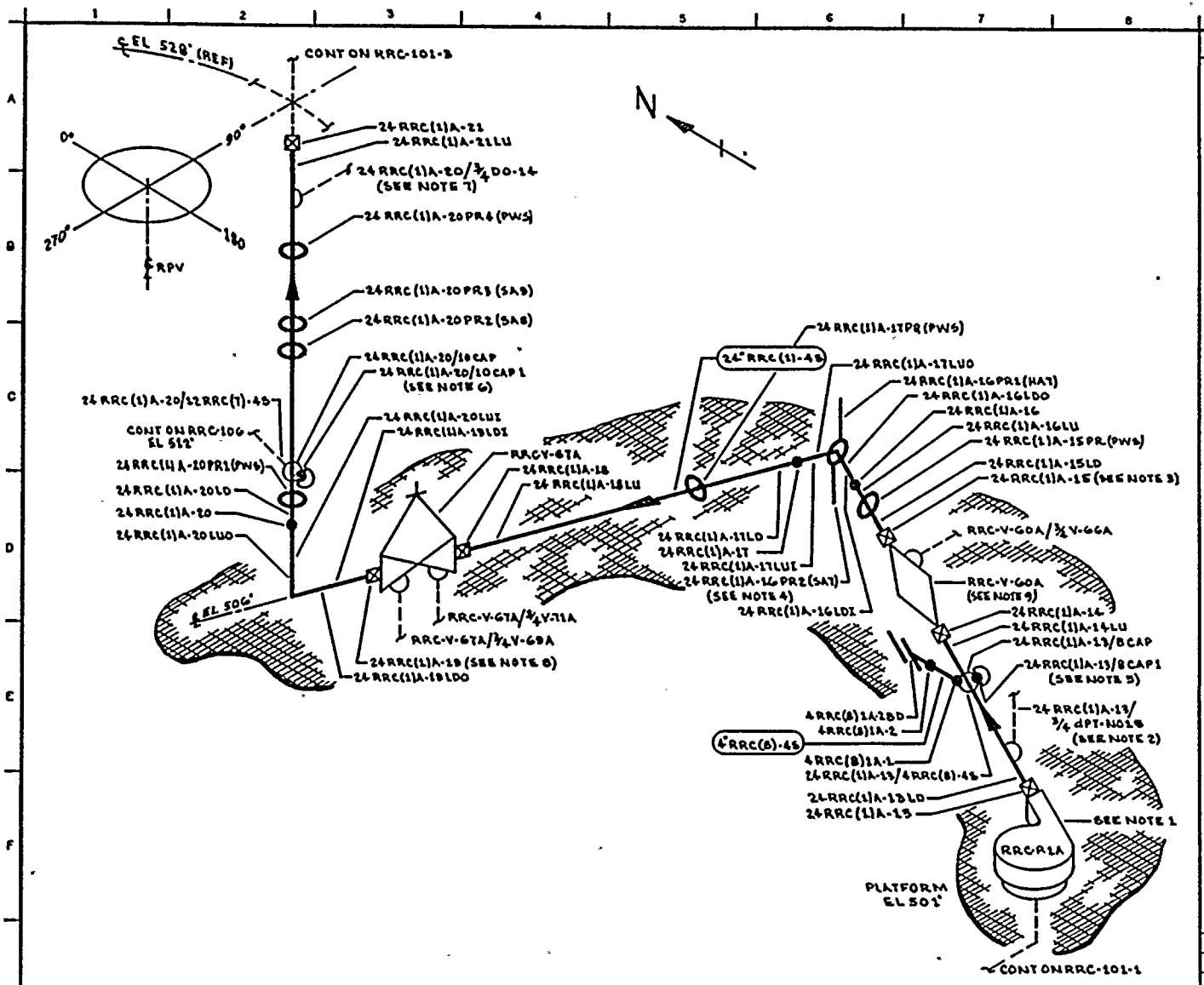
QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K McA DATE: 4-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP A

DWG NO: RRC-101-1 REV 1



NOTES:

1. SEE RRC-P-1A DETAIL DWG RRC-103 FOR PUMP SUPPORT DETAILS.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-70A) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. ACCESS TO WELD 24 RRC(1)A-15 REQUIRES REMOVAL OF 24 RRC(1)A-15PR.
4. SPECIAL CLAMP WITH HAT & SAT ATTACHMENTS.
5. WELD 24 RRC(1)A-13/8CAP 1 IS FITTING TO FITTING.
6. WELD 24 RRC(1)A-20/10 CAP 1 IS FITTING TO FITTING.
7. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-69A) THROUGH VALVE RRC-V-20.
8. WELD 24 RRC(1)A-19 IS FITTING TO FITTING.
9. RRC-V-60A HAS TWELVE (12) 2¾" X 15" BODY TO BONNET STUDS.

REFERENCES:
GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 838 SH 1	REV 3
762 E 838 SH 2	REV 3
761 E 785	REV 6
131 C 7888	REV 3
131 C 7889	REV 5
131 C 7892	REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RRC(1)-45	24	XXX	1.140	SA 358 GR 304 CL 1	SS	UT-7
4" RRC(8)-45	4	40	0.237	SA 376 Tp 304	SS	UT-31

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMLA	[illegible]	[illegible]
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMLA	[illegible]	[illegible]

QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D TIMMINS | DRAWN: K. McA | DATE: 4-6-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP A

DWG NO: RRC-101-2 | REV 0

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(2)A-1	NOZZLE TO SAFE END	B-F	X						UTP-31	UT-10			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-2	SAFE END TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-2LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-3LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-3	PIPE TO EL	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-3LDO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-3LD1	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-4LUO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(2)A-4LUI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-4	EL TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-4LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-4PR	PHS												NOTE 1
RRC-101	24RRC(2)A-5LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-5	PIPE TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-5LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-5PS/ (1 thru 4)	4 WELDED LUGS	B-K-1	X						UTP-10	UT-7			
					X					PTP-1				
RRC-101	24RRC(2)A-5/ PRI	PHS												NOTE 1

HHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
		HANGER	B-K-2					X		QCS&I-002				
RRC-101	24RRC(2)A-6LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-6	PIPE TO TEE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-6LDI	TEE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-6LDO	TEE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-7LUI	TEE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-7LUO	TEE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-7	TEE TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

WIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: REACTOR RECIRCULATION LOOP A

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(2)A-7LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-7/ 3/4PS-N018	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-7/ 3/4PX-1A	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-7PR2	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	24RRC(2)A-7PR3	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	24RRC(2)A-7PR4	PHS												NOTE 1

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

ISIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(2)A-8LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(2)A-8	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(2)A-8LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(2)A-8LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(2)A-8/ IPI(1)-45a	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-8/ IPI(1)-45b	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-8/ IPI(1)-45c	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-8/ IPI(1)-45d	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-9LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			

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INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 7/27/79

PERIOD: NA DESCRIPTION: REACTOR RECIRCULATION LOOP A REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(2)A-9LUI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-9	EL TO VALVE	B-J	X						UTP-10	UT-7			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-101	RRC-V-23A/ 3/4V-28A	VALVE DRAIN	B-P				X			QCS&I-002				
RRC-101	RRC-V-23A/ 3/4V-26A	VALVE VENT	B-P				X			QCS&I-002				
RRC-101	RRC-V-23A	VALVE BODY	B-M-2					X		QCS&I-002				
RRC-101	RRC-V-23A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RRC-101	24RRC-(2)A-10	VALVE TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-10LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-10/ 4RRC(8)-4S	PIPE TO SWL	B-J		X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	4RRC(8)2A-1	SWL TO PIPE	B-J	X						UTP-10	UT-31			
					X					PTP-1				
							X			QCS&I-002.				
RRC-101	4RRC(8)2A-2	PIPE TO FLANGE	B-J	X						UTP-10	UT-31			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	4RRC(8)2A-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
RRC-101	24RRC(2)A-10/ 3/4TE-N028	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-10/ 4RRC(4)-4S	PIPE TO SWL	B-J		X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(2)A-10/ 3/4TE-N023	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-10/ 3/4dPT-N015	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-10/ 3/4TE-N035	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(2)A-11LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

UMP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR RECIRCULATION LOOP A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(2)A-11	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(2)A-11LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(2)A-11LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(2)A-12LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(2)A-12LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(2)A-12	EL TO PUMP	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-13	PUMP TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-13LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 8 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(1)A-13/ 3/4dPT-R015	INSTR CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(1)A-13/ 8CAP	PIPE TO SWL	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-13/ 8 CAP 1	SWL TO CAP	B-J	X						UTP-10	UT-26			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-13/ 4RRC(8)-4S	PIPE TO SWL	B-J		X					PTP-1				
							X			QCS&I-002				
RRC-101	4RRC(8)1A-1	SWL TO PIPE	B-J	X						UTP-10	UT-31			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	4RRC(8)1A-2	PIPE TO FLANGE	B-J	X						UTP-10	UT-31			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	4RRC(8)1A-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
RRC-101	24RRC(1)A-14LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-14	PIPE TO VALVE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

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INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR RECIRCULATION LOOP A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	RRC-V-60A	VALVE BODY	B-M-2					X		QCS&I-002				
RRC-101	RRC-V-60A	VAVLE STUDS	B-G-1	X						UTP-33	UT-41			
					X					PTP-1				
RRC-101	RRC-V-60A	VALVE BOLTING	B-G-1			X				QCS&I-002				
RRC-101	RRC-V-60A/ 3/4V-66A	VALVE DRAIN	B-P				X			QCS&I-002				
RRC-101	24RRC(1)A-15	VALVE TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-15LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-15PR	PWS												NOTE 1
RRC-101	24RRC(1)A-16LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-16	PIPE TO EL	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-16LDO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

IWIP- 2 PROGRAM PLAN AND SCHEDULE PAGE 10 of 25

INTERVAL.: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR RECIRCULATION LOOP A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(1)A-16LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-16PR1	HANGER	B-K-2					X		QCS&I-002				
RRC-101	24RRC(1)A-16PR2	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	24RRC(1)A-17LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-17LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-17	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-17LB	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-17PR	PWS												NOTE 1
RRC-101	24RRC(1)A-18LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			

UHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 11 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DRG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(1)A-18	PIPE TO VALVE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	RRC-V-67A/ 3/4V-71A	VALVE DRAIN	B-P				X			QCS&I-002				
RRC-101	RRC-V-67A	VALVE BODY	B-M-2					X		QCS&I-002				
RRC-101	RRC-V-67A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RRC-101	RRC-V-67A/ 3/4V-69A	VALVE VENT	B-P				X			QCS&I-002				
RRC-101	24RRC(1)A-19	VALVE TO EL	B-J	X						UTP-10	UT-7			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-19LDO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-19LD1	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-20LUO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 12 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(1)A-20LU1	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-20	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-A-20LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-20PR1	PHS												NOTE 1
RRC-101	24RRC(1)A-20/12RRC(7)-4S	PIPE TO SHL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-20/10CAP	PIPE TO SHL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-101	24RRC(1)A-20/10 CAP 1	SHL TO CAP	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-20			FITTING TO FITTING
RRC-101	24RRC(1)A-20PR2	SNUBBER	B-K-2						X	QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 13 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(1)A-20PR3	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	24RRC(1)A-20PR4	PHS												NOTE 1
RRC-101	24RRC(1)A-20/3/4D014	SAMPLE CONN	B-P				X			QCS&I-002				
RRC-101	24RRC(1)A-21LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-21	PIPE TO CROSS	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-21LDI	CROSS SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-21LDO	CROSS SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-22LUI	CROSS SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	24RRC(1)A-22LUO	CROSS SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

INTERVAL: BASELINE

PERIOD: HA

PROGRAM PLAN AND SCHEDULE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DESCRIPTION: REACTOR RECIRCULATION LOOP A

DATE: 7/27/79

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	24RRC(1)A-22	CROSS TO RED	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			FITTING TO FITTING
RRC-101	16RRC(1)A-1	CROSS TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-101	16RRC(1)A-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-101	16RRC(1)A-1PR1	PHS												NOTE 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	16RRC(1)A-1PR2	HANGER	B-K-2					X		QCS&I-002				
RRC-101	16RRC(1)A-1/ 12RRC(1)-N2D	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-PR3	PHS												NOTE 1
RRC-101	16RRC(1)A-1PR4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	16RRC(1)A-1/ 12RRC(1)-N2E	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-2LU	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-2	PIPE TO CAP	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-3	CROSS TO PIPE	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-3LD	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 15 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	16RRC(1)A-3PR1	PHS												NOTE 1
RRC-101	16RRC(1)A-3PR2	HANGER	B-K-2						X	QCS&I-002				
RRC-101	16RRC(1)A-3/ 12RRC(1)N2B	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-3PR3	PHS												NOTE 1
RRC-101	16RRC(1)A-3PR4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-101	16RRC(1)A-3/ 12RRC(1)-N2A	PIPE TO SWL	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-4LU	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	16RRC(1)A-4	PIPE TO CAP	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2A-1	SWL TO PIPE	B-J	X						UTP-1	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2A-1LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 15a of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2A-1ALU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2A-1A	PIPE TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2A-1ALD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

MRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 16 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-H2A-/ 1PR	PHS												NOTE 1
RRC-101	12RRC(1)-H2A-/ 2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-H2A-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-H2A-/ 2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-H2A-/ 2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-H2A-/ 3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-H2A-/ 3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-H2A-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 17 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2A-/3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2A-/4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2A-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2A-6	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-101	12RRC(1)-N2B-1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-1ALU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-1A	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE /

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: REACTOR RECIRCULATION LOOP A

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2B-1ALD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-1PR	PUS												NOTE 1

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 10 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/0/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2B-/2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-/2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-/2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-/3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-/3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-/3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 19 of 25

INTERVAL: BASELINE / | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2B-/ 4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2B-6	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-101	12RRC(1)-N2C-1	RED TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-1ALU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-1A	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-1ALD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 19a of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-W2C-1PR	PHS												NOTE 1
RRC-101	12RRC(1)-W2C-2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2C-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-/ 4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: REACTOR RECIRCULATION LOOP A

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2C-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2C-6	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-101	12RRC(1)-N2D-1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-1ALU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-1A	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-1ALD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-1PR	PHS												NOTE 1

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INTERVAL: Baseline | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2D-2LU	PIPE SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-101	12RRC(1)-N2D-2	PIPE TO EL.	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							

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INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: REACTOR RECIRCULATION LOOP A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2D-/2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-/4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WNP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: REACTOR RECIRCULATION LOOP A

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2D-C	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-101	12RRC(1)-N2E-1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-1ALU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-1A	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-1ALD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-1PR	PHS												NOTE 1
RRC-101	12RRC(1)-N2E-2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 23a of 25

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 7/27/79

PERIOD: NA DESCRIPTION: REACTOR RECIRCULATION LOOP A REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2E-2	PIPE TO EL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-101	12RRC(1)-N2E-2LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: REACTOR RECIRCULATION LOOP A

REVISION: 1

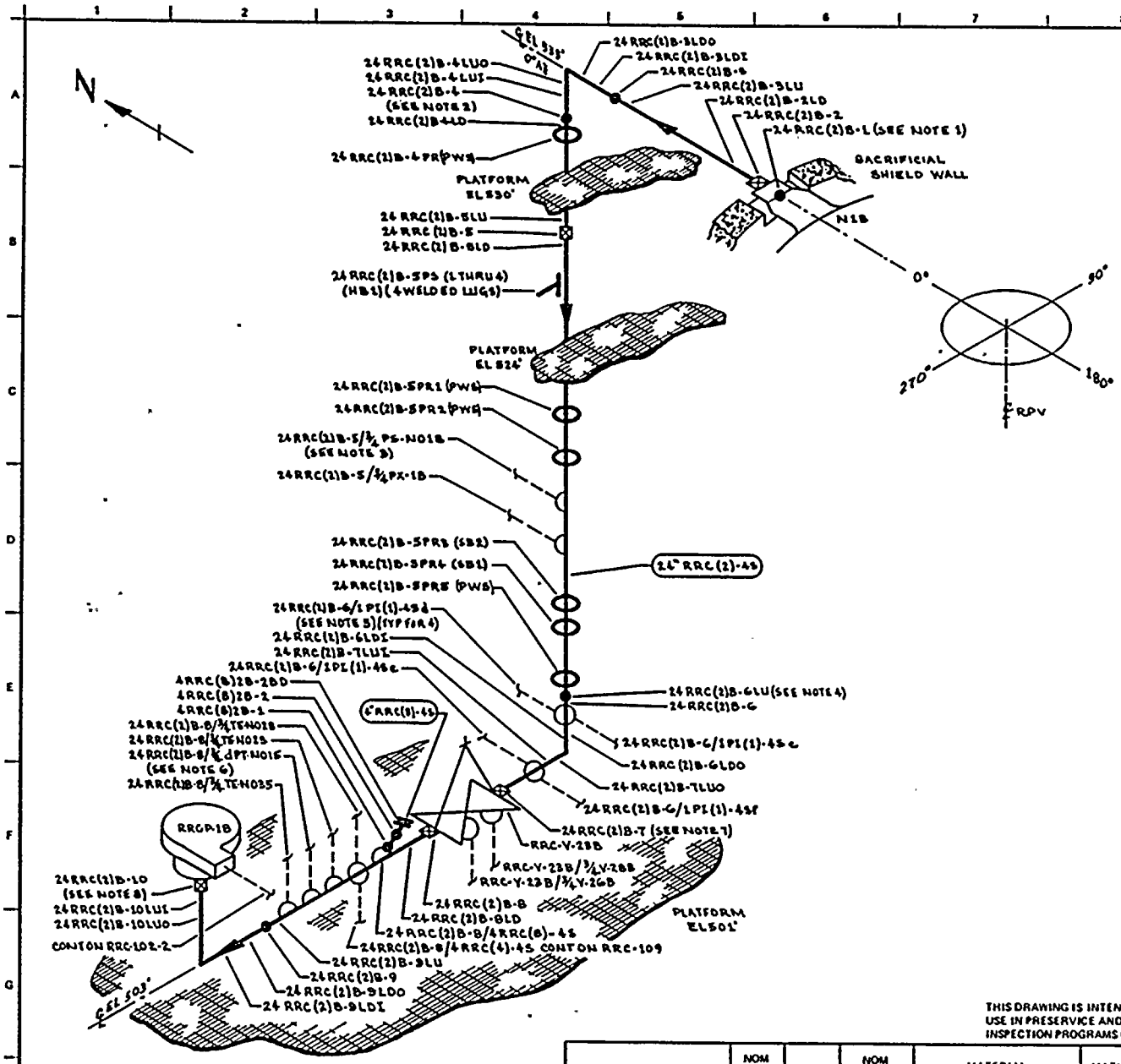
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-N2E-/ 2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2E-/ 4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-101	12RRC(1)-N2D-4	PIPE TO SEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 25 of 25

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-101	12RRC(1)-H2E-6	SAFE END TO NOZZLE	B-F	X	X		X			UTP-31 PTP-1 QCS&I-002	UT-102			



NOTES:

1. WELD 24RRC(2)B-1 UTILIZES CAL BLOCK UT-101
2. ACCESS TO WELD 24RRC(2)B-4 REQUIRES REMOVAL OF 24RRC(2)B-4PR
3. EXTEND LEAKAGE EXAM THROUGH PENETRATION (X-62A) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
4. ACCESS TO WELD 24RRC(2)B-5 REQUIRES REMOVAL OF 24RRC(2)B-5PR5.
5. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-75C, X-75d, X-75e (X-75f) THROUGH EXCESS FLOW CHECK VALVES TO INSTRUMENT TUBING CONNECTIONS.
6. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-41c) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
7. WELD 24RRC(1)B-7 IS FITTING TO FITTING.
8. WELD 24RRC(1)B-10 IS FITTING TO FITTING.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 538 SH 1	REV 3
762 E 538 SH 2	REV 3
761 E 785	REV 6
131 C 7586	REV 4
131 C 7587	REV 3

CBI NUCLEAR CO.

48, REV 4 N1 NOZZLE ASSEMBLY

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RRC(2)-4S	24	XXX	1.140	SA 358 GR 304 CL 1	SS	UT-7
4" RRC(8)-4S	4	40	0.237	SA 376 Tp 304	SS	UT-31

NO	DATE	REVISION	BY	CHKD	APPVD
0	11-27-78	ISSUED FOR USE	KMA	JCS	JSS
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMA	JCS	JSS

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: K. M. A. | DATE: 2-29-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

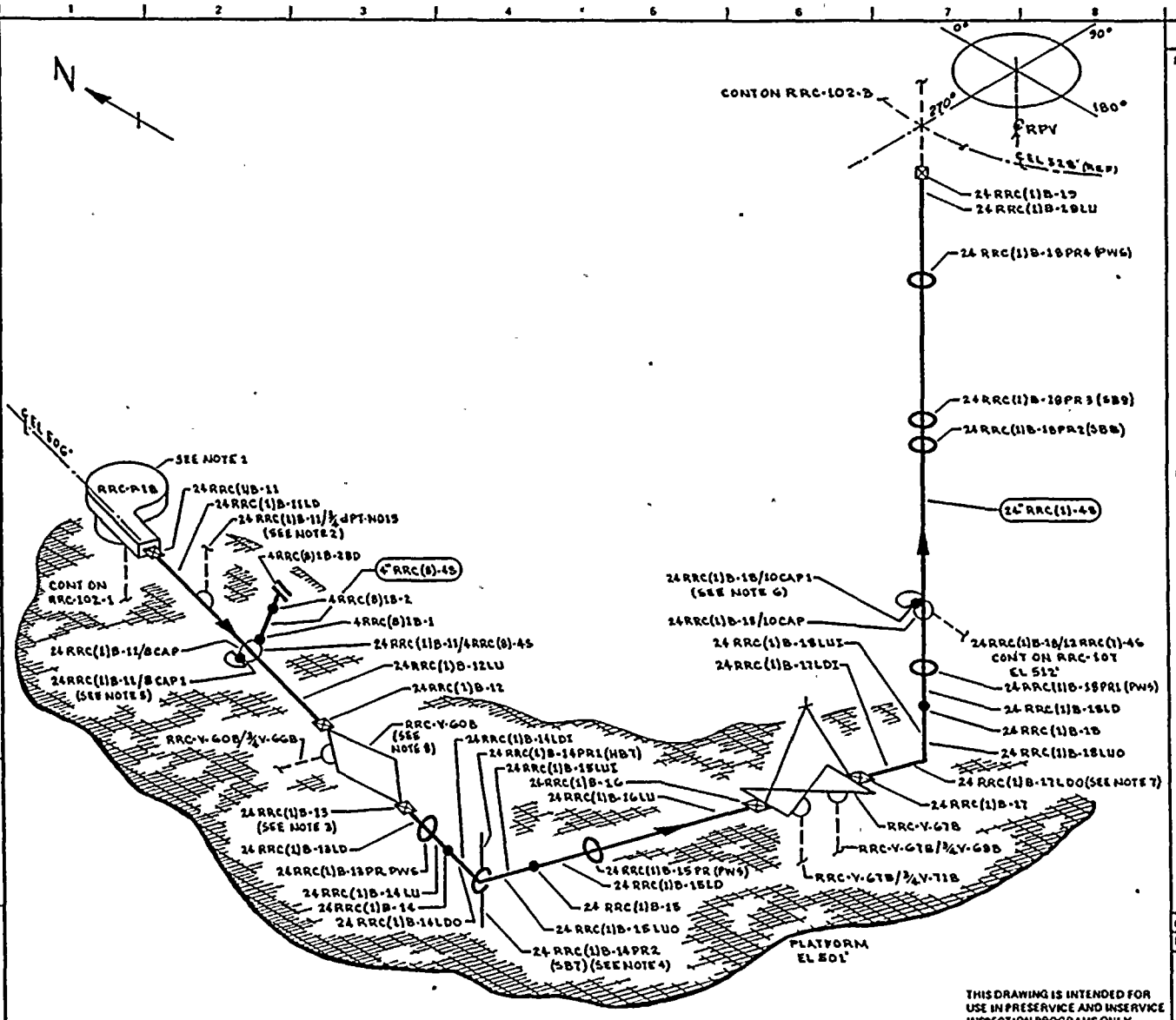
RICHLAND, WASHINGTON 99352

WNP 2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE

REACTOR RECIRCULATION LOOP B

DWG NO RRC-102-1 | REV 0



NOTES:

1. SEE RRC-P-1B DETAIL DWG RRC-10B FOR PUMP SUPPORT DETAILS.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-41d) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. ACCESS TO WELD 24 RRC(1)B-13 REQUIRES REMOVAL OF 24 RRC(1)B-13PR.
4. SPECIAL CLAMP WITH HBT & SBT ATTACHMENTS.
5. WELD 24 RRC(1)B-11/8CAP1 IS FITTING TO FITTING.
6. WELD 24 RRC(1)B-18/10CAP1 IS FITTING TO FITTING.
7. WELD 24 RRC(1)B-17 IS FITTING TO FITTING.
8. RRC-V-60B HAS TWELVE (12) 2¾" X 15" BODY TO BONNET STUDS.

REFERENCES:

GENERAL ELECTRIC DRAWINGS

761 E 424	REV 2
762 E 838 SH 1	REV 3
762 E 838 SH 2	REV 3
761 E 735	REV 6
131 C 7588	REV 3
131 C 7589	REV 5
131 C 7592	REV 3

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
24" RRC(1)-4S	24	XXX	1.140	SA 358 GR 304 CL 1	8S	UT-7
4" RRC(8)-4S	4	40	0.237	SA 376 TP 304	8S	UT-31

NO	DATE	REVISION	BY	CHKD	APPVD
1	7-12-79	RELOCATED AZIMUTH ORIENTATION FOR CLARITY, IN A-7	KMcL	[illegible]	[illegible]
0	11-27-78	ISSUED FOR USE	KMcL	DCJ	
A	5-19-78	ISSUED FOR INFORMATION ONLY	KMcL	DCJ	

QUALITY CLASS: 1 | ASME CODE CLASS: 1

ENGR: D TIMMINS | DRAWN: KMcL | DATE: 2-20-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
REACTOR RECIRCULATION LOOP B

DWG NO: RRC-102-2 | REV 1

WRP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 1 of 23

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: REACTOR RECIRCULATION LOOP B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(2)B-1	NOZZLE TO SAFE END	B-F	X						UTP-31	UT-101			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-2	SAFE END TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)-B-2LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-3LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-3	PIPE TO EL	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-3LDO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-3LDI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)-B 4LVI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

WRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(2)B-4	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-4LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-4PR	PWS												NOTE 1
RRC-102	24RRC(2)-5LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-5	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-5LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-5PS/(1 thru 4)	4 WELDED LUGS	B-K-1	X	X					UTP-10 PTP-1	UT-7			
		HANGER	B-K-1					X		QCS&I-002				
RRC-102	24RRC(2)B-5PR1	PWS												NOTE 1
RRC-102	24RRC(2)B-5PR2	PWS												NOTE 1

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: REACTOR RECIRCULATION LOOP B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(2)B-5/ 3/4 PS-N018	INSTR CONN	B-P				X			QCS&I-002				
RRC-102	24RRC(2)B-5/ 3/4 PX-1B	INSTR CONN	B-P				X			QCS&I-002				
RRC-102	24RRC(2)B-5PR3	SNUBBER	B-K-2						X	QCS&I-002				
RRC-102	24RRC(2)B-5PR4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-102	24RRC(2)B-5PR5	PHS												NOTE 1
RRC-102	24RRC(2)B-6LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-6	PIPE TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-6LDO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-6LDI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-6/1 PI(1)-4Sc	INSTR CONN	B-P				X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: REACTOR RECIRCULATION LOOP B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(2)B-6/1 PI(1)-4Sd	INSTR CONN	B-P				X			QCS&I-002				
RRC-102	24RRC(2)B-5/1 PI(1)-4Se	INSTR CONN	B-P				X			QCS&I-002				
RRC-102	24RRC(2)B-1 PI (1)-4Sf	INSTR CONN	B-P				X			QCS&I-002				
RRC-102	24RRC(2)B-7LUO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-7LUI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-7	EL TO VALVE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	RRC-V-23B/3/4V-28B	VALVE DRAIN	B-P				X			QCS&I-002				
RRC-102	RRC-V-23B/3/4V-26B	VALVE VENT	B-P				X			QCS&I-002				
RRC-102	RRC-V-23B	VALVE BODY	B-M-2				X			QCS&I-002				
RRC-102	RRC-V-23B	VALVE BOLTING	B-G-2			X				QCS&I-002				

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(2)B-8	VALVE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-8LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-8/4 RRC(8)-4S	PIPE TO SWL	B-J		X		X			PTP-1 QCS&I-002				
RRC-102	4 RRC(8)2B-1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-31			
RRC-102	4 RRC(8)2B-2	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-31			
RRC-102	4 RRC(8)2B-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
RRC-102	24RRC(2)B-8/ 3/4 TE-N028	INSTR CONN	B-P				X			QCS&I-002				
RRC-102	24RRC(2)B-8/4 RRC(4)-4S	PIPE TO SWL	B-J		X		X			PTP-1 QCS&I-002				
RRC-102	24RRC(2)B-8/ 3/4TE-N023	INSTR CONN	B-P			X				QCS&I-002				
RRC-102	24RRC(2)B-8/ 3/4TE-N035	INSTR CONN	B-P			X				QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK.	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(2)B-9LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-9	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	4RRC(2)B-9LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-9LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-10 LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-10 LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(2)B-10	EL TO PUMP	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-11	PUMP TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			

UNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-11LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(2)B-11/ 3/4 DPT-N015	INSTR CONN	B-P				X			QCS&I-002				
RRC-102	24RRC(1)B-11/8 CAP	PIPE TO SWL	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-11/8 CAP 1	SWL TO CAP	B-J	X						UTP-10	UT-26			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-11/4 RRC(8)-4S	PIPE TO SWL	B-J		X					PTP-1				
							X			QCS&I-002				
RRC-102	4RRC(8)1B-1	SWL TO PIPE	B-J	X						UTP-10	UT-31			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	4RRC(8)1B-2	PIPE TO FLANGE	B-J	X						UTP-10	UT-31			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	4RRC(8)1B-2BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
RRC-102	24RRC(1)B-12LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

UNIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 1/8/79

PERIOD: N/A

DESCRIPTION: REACTOR RECIRCULATION LOOP B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-12	PIPE TO VALVE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	RRC-V-60B	VALVE BODY	B-M-2					X		QCS&I-002	UT-7			
RRC-102	RRC-V-60B	VALVE STUDS	B-G-1	X						UTP-10	UT-41			
					X					PTP-1				
RRC-102	RRC-V-60B	VALVE BOLTING	B-G-1			X				QCS&I-002				
RRC-102	RRC-V-60B/3/4 V-66B	VALVE DRAIN	B-P				X			QCS&I-002				
RRC-102	24RRC(1)B-13	VALVE TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-13LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-13PR	PHS												NOTE 1
RRC-102	24RRC(1)B-14LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-14	PIPE TO EL	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

WIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 9 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-14LDO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-14LDI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-14PR1	HANGER	B-K-2					X		QCS&I-002				
RRC-102	24RRC(1)B-14PR2	SNUBBER	B-K-2						X	QCS&I-002				
RRC-102	24RRC(1)B-15LUO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-15LUI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-15	EL TO PIPE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-15LD	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-15PR	PHS												NOTE 1

MAP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 10 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

DRG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-16LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-16	PIPE TO VALVE	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	RRC-V-67B/3/4 V-71B	VALVE DRAIN	B-P				X			QCS&I-002				
RRC-102	RRC-V-67B	VALVE BODY	B-M-2					X		QCS&I-002				
RRC-102	RRC-V-67B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RRC-102	RRC-V-67B/3/4 V-69B	VALVE VENT	B-P				X			QCS&I-002				
RRC-102	24RRC(1)B-17	VALVE TO EL	B-J	X						UTP-10	UT-7			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-17LDO	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-17LDI	EL SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

INIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-18LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18 PRI	PWS												NOTE 1
RRC-102	24RRC(1)B-18 12RRC(7)-4S	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18/ 10 CAP	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-7			
RRC-102	24RRC(1)B-18/ 10 CAP 1	SWL TO CAP	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			FITTING TO FITTING
RRC-102	24RRC(1)B-18PR 2	SNUBBER	B-K-2						X	QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 12 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-18PR 3	Snubber	B-K-2						X	QCS&I-002				
RRC-102	24RRC(1)B-18PR4	PHS												NOTE 1
RRC-102	24RRC(1)-19LU	PIPE SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-19	PIPE TO CROSS	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-19LDI	CROSS SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-19LDO	CROSS SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)B-20LUI	CROSS SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	24RRC(1)-B-20LUO	CROSS SEAM	B-J	X						UTP-10	UT-7			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 12a of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	24RRC(1)B-20	CROSS TO RED	B-J	X						UTP-10	UT-7			FITTING TO FITTING
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-1	CROSS TO PIPE	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-1LD	PIPE SEAM	B-J	X						UTP-10	UT-13			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	16RRC(1)B-1PR1	PWS												NOTE 1

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 13 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	16RRC(1)B-1PR2	HANGER	B-K-2					X		QCS&I-002				
RRC-102	16RRC(1)B-1/ 12RRC(1)-N2G	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	16RRC(1)B-1PR3	PWS												NOTE 1
RRC-102	16RRC(1)B-1PR3	SNUBBER	B-K-2						X	QCS&I-002				
RRC-102	16RRC(1)B-1/12 RRC(1)-N2F	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	16RRC(1)B-2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	16RRC(1)B-2	PIPE TO CAP	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	16RRC(1)B-3	CROSS TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	16RRC(1)B-LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	16RRC(1)B-3PR1	PWS												NOTE 1

WMP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: REACTOR RECIRCULATION LOOP B

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	16RRC(1)B-3PR2	HANGER	B-K-2					X		QCS&I-002				
RRC-102	16RRC(1)B-3/12 RRC(1)N2J	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	16RRC(1)B-3PR3	PHS												NOTE 1
RRC-102	16RRC(1)B-3PR4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-102	16RRC(1)B-3/12 RRC(1)-N2K	PIPE TO SWL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	16RRC(1)B-4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	16RRC(1)B-4	PIPE TO CAP	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-13			
RRC-102	12RRC(1)-N2F-1	SWL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

MIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 14a of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2F-1ALU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-1A	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-1ALD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

IWP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 15 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

ISIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2F-1PR	PHS												NOTE 1
RRC-102	12RRC(1)-N2F-2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(2)-4S

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: REACTOR RECIRCULATION LOOP B

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2F-3LD	PIPE SEAM	B-J	X	X X					UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-4LU	PIPE SEAM	B-J	X	X X					UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-4	PIPE TO SEE	B-J	X	X X					UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2F-6	SAFE END TO NOZZLE	B-F	X	X X					UTP-31 PTP-1 QCS&I-002	UT-102			
RRC-102	12RRC(1)-N2G-1	SWL TO PIPE	B-J	X	X X					UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-1LD	PIPE SEAM	B-J	X	X X					UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-1ALU	PIPE SEAM	B-J	X	X X					UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-1A	PIPE TO PIPE	B-J	X	X X					UTP-10 PTP-1 QCS&I-002	UT-19			

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 7/27/79

PERIOD: N/A DESCRIPTION: REACTOR RECIRCULATION LOOP B REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2G-1ALO	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-N2G-1 PR	PWS												NOTE 1

WIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 17 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 1/8/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2G-2 LU	PIPE SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X									
							X							
RRC-102	12RRC(1)-N2G-2	PIPE TO EL	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X									
							X							
RRC-102	12RRC(1)-N2G-2 LDO	EL SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X									
							X							
RRC-102	12RRC(1)N2G-2 LDI	EL SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X									
							X							
RRC-102	12RRC(1)N2G-3 LUO	EL SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X									
							X							
RRC-102	12RRC(1)-N2G-3 LUI	EL SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X									
							X							
RRC-102	12RRC(1)-N2G-3	EL TO PIPE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X									
							X							
RRC-102	12RRC(1)-N2G-3 LO	PIPE SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X									
							X							

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 18 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2G-4 LU	PIPE SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)-N2G-4	PIPE TO SEE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)-N2G-6	SAFE END TO NOZZLE	B-F	X						UTP-31 PTP-1 QCS&I-002	UT-102			
					X		X							
RRC-102	12RRC(1)-N2H-	RED TO PIPE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)N2H-1LD	PIPE SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1) N2H-1A2U	PIPE SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)N2H-1A	PIPE TO PIPE	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							
RRC-102	12RRC(1)N2H-1ALD	PIPE SEAM	B-J	X						UTP-10 PTP-1 QCS&I-002	UT-19			
					X		X							

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 18a of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2H-1PR	PHS												NOTE 1
RRC-102	12RRC(1)-N2H-2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

UNIT- 2 PROGRAM PLAN AND SCHEDULE PAGE 19 of 23

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(2)-4S DATE: 1/8/79

PERIOD: N/A DESCRIPTION: REACTOR RECIRCULATION LOOP B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-H2H-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-H2H-2 LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-H2H-2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-H2H-3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-H2H-3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-H2H-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-H2H-3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-H2H 4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 20 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: HA | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2H-4	PIPE TO SEE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)N2H-6	SAFE END TO NOZZLE	B-F	X						UTP-10	UT-102			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-1	SWL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-1LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-1ALU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-1A	PIPE TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-1ALD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-1PR	PHS												NOTE 1

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 20a of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-H2J-2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-102	12RRC(1)-H2J-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 21 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2J-2 LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-3 LUO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-3 LUI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-3	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-3 LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-4 LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2J-4	PIPE TO SEE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

WRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 22 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2J-6	SAFE END TO NOZZLE	B-F	X						UTP-31	UT-102			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-1	SHL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-1LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-1ALU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-1A	PIPE TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-1ALD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-1PR	PNS												NOTE 1
RRC-102	12RRC(1)-N2K-2LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 22a of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-N2K-2	PIPE TO EL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-2 LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-2 LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)N2K-3 LU	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 23 of 23

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(2)-4S | DATE: 7/27/79

PERIOD: N/A | DESCRIPTION: REACTOR RECIRCULATION LOOP B | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-102	12RRC(1)-3LUI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-3	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-3 LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-4 LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-4	PIPE TO SEE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-102	12RRC(1)-N2K-6	SAFE END TO NOZZLE	B-F	X						UTP-31	UT-102			
					X					PTP-1				
							X			QCS&I-002				

UIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL.: BASELINE

SYSTEM OR COMPONENT NO. RRC-P-1A

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RRC LOOP A PUMP

REVISION: 0

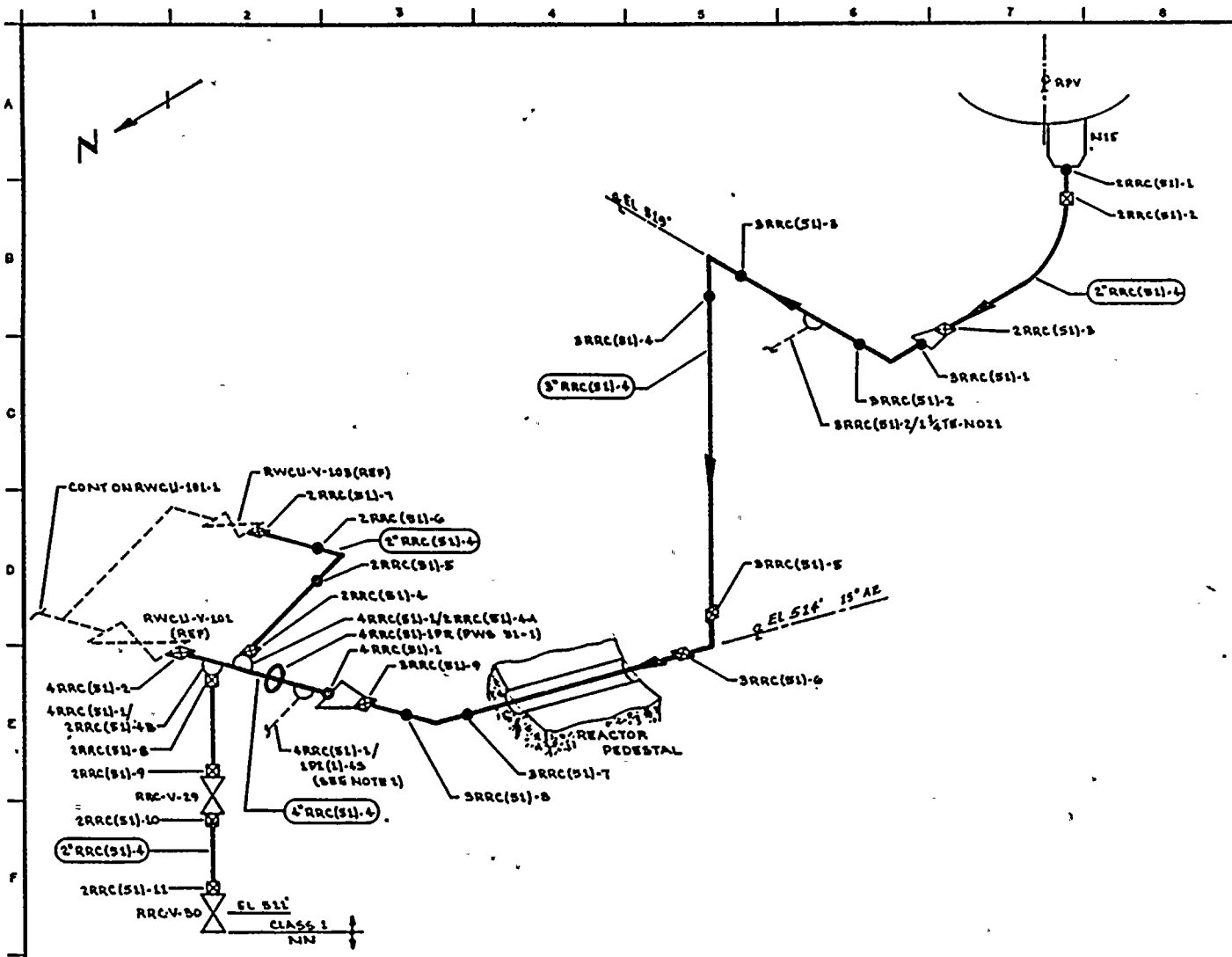
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-103	RRC-P-AHA2	LUG HANGER	B-K-1 B-K-2		X			X		PTP-1 QCS&I-002				
RRC-103	RRC-P-AHA3	LUG HANGER	B-K-1 B-K-2		X			X		PTP-1 QCS&I-002				
RRC-103	RRC-P-AHA4	LUG HANGER	B-K-1 B-K-2		X			X		PTP-1 QCS&I-002				
RRC-103	RRC-P-AHA5	LUG HANGER	B-K-1 B-K-2		X			X		PTP-1 QCS&I-002				
RRC-103	RRC-P-ARA1	LUG RESTRAINT	B-K-1 B-K-2		X				X	PTP-1 QCS&I-002				
RRC-103	RRC-P-ASA6	LUG SNUBBER	B-K-1 B-K-2		X				X	PTP-1 QCS&I-002				
RRC-103	RRC-P-ASA3	SNUBBER	B-K-2						X	QCS&I-002				
RRC-103	RRC-P-ASA4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-103	RRC-P-ASA5	SNUBBER	B-K-2						X	QCS&I-002				
RRC-103	RRC-P-1A	PUMP STUDS	B-G-1	X 	 X					UTP-33 PTP-1	UT-41			
RRC-103	RRC-P-1A	PUMP BOLTING	B-G-1			X				QCS&I-002				
RRC-103	RRD-P-1A	PUMP BODY	B-H-2 B-P				 X	X		QCS&I-002 QCS&I-002				

UNIP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 2

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC-P-1B | DATE: 1/8/79

PERIOD: IIA | DESCRIPTION: RRC LOOP B PUMP | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-103	RRC-P-BHB2	LUG HANGER	B-K-1 B-K-2		X			 X		PTP-1 QCS&I-002				
RRC-103	RRC-P-BHB3	LUG HANGER	B-K-1 B-K-2		X			 X		PTP-1 QCS&I-002				
RRC-103	RRC-P-BHB4	LUG HANGER	B-K-1 B-K-2		X			 X		PTP-1 QCS&I-002				
RRC-103	RRC-P-BHB5	LUG HANGER	B-K-1 B-K-2		X			 X		PTP-1 QCS&I-002				
RRC-103	RRC-P-BRB1	LUG RESTRAINT	B-K-1 B-K-2		X				 X	PTP-1 QCS&I-002				
RRC-103	RRC-P-BSB6	LUG SNUBBER	B-K-1 B-K-2		X				 X	PTP-1 QCS&I-002				
RRC-103	RRC-P-BSB3	SNUBBER	B-K-2						X	QCS&I-002				
RRC-103	RRC-P-BSB4	SNUBBER	B-K-2						X	QCS&I-002				
RRC-103	RRC-P-BSB5	SNUBBER	B-K-2						X	QCS&I-002				
RRC-103	RRC-P-1B	PUMP STUDS	B-G-1	X 	 X					UTP-33 PTP-1	UT-41			
RRC-103	RRC-P-1B	PUMP BOLTING	B-G-1			X				QCS&I-002				
RRC-103	RRC-P-1B	PUMP BODY	B-H-2 B-P				 X	X		QCS&I-002 QCS&I-002				



NOTES:

1. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-78c) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RRC-SG4-1.3 REV 4.

CBI NUCLEAR CO
87, REV G N15 DRAIN NOZZLE

QUALITY CLASS: 1	ASME CODE CLASS: 1
ENGR: D TIMMINS	DRAWN: K-McA DATE: 6-22-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
2"RRC(51)-4	2	160	0.343	SA 106 GR B	CS	NA
3"RRC(51)-4	3	160	0.438	SA 106 GR B	CS	NA
4"RRC(51)-4	4	80	0.337	SA 106 GR B	CS	UT-20

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE: RPV DRAIN TO RWCU & DRYWELL SUMP

DWG NO: RRC-104 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	12-22-78	ISSUED FOR USE	K-McA	RLB	RLB
A	9-19-78	ISSUED FOR INFORMATION ONLY	K-McA	DJ	DJT

UNIT- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 3

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC (51)-4 | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RPV DRAIN | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-104	2RRC (51)-1	NOZZLE TO FORG.	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	2RRC (51)-2	FORG. TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	2RRC (51)-3	PIPE TO RED.	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	3RRC (51)-1	RED. TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	3RRC (51)-2	EL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	3RRC (51)-2/ 1¼TE-H021	PIPE TO SOL	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	3RRC (51)-3	PIPE TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	3RRC (51)-4	EL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	3RRC (51)-5	PIPE TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	3RRC (51)-6	EL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 2 of 3

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC (51)-4 DATE: 1/8/79

PERIOD: HA DESCRIPTION: RPV DRAIN REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-104	3RRC (51)-7	PIPE TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	3RRC (51)-8	EL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	3RRC (51)-9	PIPE TO RED.	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	4RRC (51)-1	RED. TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			
RRC-104	4RRC (51)-1/ 1PI(1)-4S	INSTR CONN	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	4RRC (51)-1PR	PHS												NOTE 1
RRC-104	4RRC (51)-1/ 2RR(51)-4A	PIPE TO WOL	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	2RRC (51)-4	WOL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	2RRC (51)-5	PIPE TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-104	2RRC (51)-6	EL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC (51)-4

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RPV DRAIN

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-104	2RRC (51)-7	PIPE TO VALVE	B-J		X					PTP-1				
							X			QCS&I-002				
RRC-104	4RRC (51)-1/ 2RRC(51)-4B	PIPE TO SOL	B-J		X					PTP-1				
							X			QCS&I-002				
RRC-104	4RRC (51)-2	PIPE TO VALVE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RRC-104	2RRC (51)-8	SOL TO PIPE	B-J		X					PTP-1				
							X			QCS&I-002				
RRC-104	2RRC (51)-9	PIPE TO VALVE	B-J		X					PTP-1				
							X			QCS&I-002				
RRC-104	RRC-V-29	VALVE BOLTING	B-G-2			X				QCS&I-002				
RRC-104	2RRC (51)-10	VALVE TO PIPE	B-J		X					PTP-1				
							X			QCS&I-002				
RRC-104	2RRC (51)-11	PIPE TO VALVE	B-J		X					PTP-1				
							X			QCS&I-002				
RRC-104	RRC-V-30	VALVE BOLTING	B-G-2			X				QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(6)-4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHR SHUTDOWN COOLING SUCTION INTERTIE WITH RRC LOOP A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-105	20RRC(6)-1	PIPE TO RED. TEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-1LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-2LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-2	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-2LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-2LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-3LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-3LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002;	UT-9			

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(6)-4S | DATE: 1/8/79

PERIOD: HA | DESCRIPTION: RHR SHUTDOWN COOLING SUCTION INTERTIE WITH RRC LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-105	20RRC(6)-3	EL TO PIPE	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-3LD	PIPE SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-4LU	PIPE SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-4	PIPE TO EL	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-4LDI	EL SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-4LDO	EL SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-4/ 3/4dPIS-N012e	INST CONN	B-P				X			QCS&I-002				
RRC-105	20RRC(6)-4/ 3/4dPIS-N012f	INST CONN	B-P				X			QCS&I-002				
RRC-105	20RRC(6)-5LUI	EL SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				

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PROGRAM PLAN AND SCHEDULE

PAGE 3 of 4

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(6)-45

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHR SHUTDOWN COOLING SUCTION INTERTIE WITH RRC LOOP A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-105	20RRC(6)-5LHO	EL SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-5	EL TO PIPE	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-5LD	PIPE SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-5PR	PWS												NOTE 1
RRC-105	20RRC(6)-6LU	PIPE SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-6	PIPE TO EL	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-6LDI	EL SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				
RRC-105	20RRC(6)-6LDO	EL SEAM	B-J	X						UTP-10	UT-9			
					X					PTP-1				
							X			QCS&I-002				

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PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(6)-4S

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RHR SHUTDOWN COOLING SUCTION INTERTIE WITH RRC LOOP A

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-105	20RRC(6)-7LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-7LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-7	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-7LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-7PR	PWS												NOTE 1
RRC-105	20RRC(6)-7ALU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-7A	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-7ALD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4a of 4

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(6)-4S | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RHR SHUTDOWN COOLING SUCTION INTERTIE WITH RRC LOOP A | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-105	20RRC(6)-8LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			
RRC-105	20RRC(6)-8	PIPE TO VALVE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-9			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 1 of 3

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(7)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR SHUTDOWN COOLING RETURN TO RRC LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-106	12RRC(7)A-1	VAVLE TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-1LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-2LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-2	PIPE TO EL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-2LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-2LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-3LUI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

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PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(7)-4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHR SHUTDOWN COOLING RETURN TO RRC LOOP A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-106	12RRC(7)A-3LUO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-3	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-3LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-4LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-4	PIPE TO EL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-4LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-4LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-5LUI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

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INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RRC(7)-4S | DATE: 1/8/79

PERIOD: NA | DESCRIPTION: RHR SHUTDOWN COOLING RETURN TO RRC LOOP A | REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-106	12RRC(7)A-5LUC	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-5	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-5LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-6LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-106	12RRC(7)A-6	PIPE TO SWL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

MNP- 2 PROGRAM PLAN AND SCHEDULE PAGE 1 of 3

INTERVAL.: BASELINE SYSTEM OR COMPONENT NO. RRC(7)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: RHR SHUTDOWN COOLING RETURN TO RRC LOOP B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-107	12RRC(7)B-1	VALVE TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-1LD	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-2LU	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-2	PIPE TO EL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-2LDI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-2LDO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-3LUI	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-3LUO	EL SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

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PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(7)-4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHR SHUTDOWN COOLING RETURN TO RRC LOOP B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-107	12RRC(7)B-3	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-107	12RRC(7)B-3LD	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-107	12RRC(7)B-4LU	PIPE SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-107	12RRC(7)B-4	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-107	12RRC(7)B-4LDI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-107	12RRC(7)B-4LDO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-107	12RRC(7)B-5LUI	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			
RRC-107	12RRC(7)B-5LUO	EL SEAM	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-19			

UIIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(7)-4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RIR SHUTDOWN COOLING RETURN TO RRC LOOP B

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-107	12RRC(7)B-5	EL TO PIPE	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-5LO	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-6LO	PIPE SEAM	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				
RRC-107	12RRC(7)B-6	PIPE TO SWL	B-J	X						UTP-10	UT-19			
					X					PTP-1				
							X			QCS&I-002				

WIP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(4)-4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RHCU INTERTIE TO RRC LOOP A

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-108	4RRC(4)A-1	SOL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-108	4RRC(4)A-2	PIPE TO TEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-108	4RRC(4)A-3	PIPE TO RED.	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-108	4RRC(4)A-4	PIPE TO TEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-108	4RRC(4)A-5	TEE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-108	4RRC(4)A-6	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-108	4RRC(4)A-7	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-108	4RRC(4)A-7PR1	PWS												NOTE 1
RRC-108	4RRC(4)A-7PR2	PWS												NOTE 1

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 2 of 2

INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(4)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: RWCU INTERTIE TO RRC LOOP A REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-108	4RRC(4)A-8	PIPE TO EL	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RRC-108	4RRC(4)A-9	EL TO PIPE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RRC-108	4RRC(4)A-9PR	PWS												
RRC-108	4RRC(4)A-10	PIPE TO VALVE SAFE END	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RRC-108	4RRC(4)A-11	SAFE END TO VALVE	B-F	X						UTP-31	UT-29			DISSIMILAR METAL WELD, SS TO CS
					X					PTP-1				
							X			QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 1 of 2

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RRC(4)-4S

DATE: 1/8/79

PERIOD: NA

DESCRIPTION: RWCU INTERTIE TO RRC LOOP B

REVISION: 0

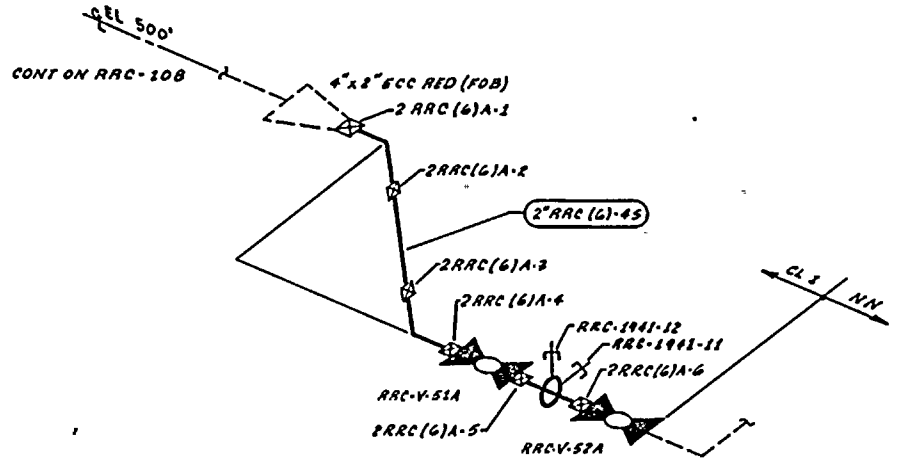
DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-109	4RRC(4)B-1	SWL TO PIPE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RRC-109	4RRC(4)B-1PR	PHS												NOTE 1
RRC-109	4RRC(4)B-2	PIPE TO TEE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RRC-109	4RRC(4)B-3	PIPE TO RED	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RRC-109	4RRC(4)B-4	PIPE TO TEE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RRC-109	4RRC(4)B-5	TEE TO PIPE	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				
RRC-109	4RRC(4)B-5PR1	PHS												NOTE 1
RRC-109	4RRC(4)B-5PR2	PHS												NOTE 1
RRC-109	4RRC(4)B-6	PIPE TO EL	B-J	X						UTP-10	UT-29			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 PROGRAM PLAN AND SCHEDULE PAGE 2 of 2

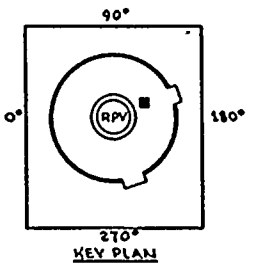
INTERVAL: BASELINE SYSTEM OR COMPONENT NO. RRC(4)-4S DATE: 1/8/79

PERIOD: NA DESCRIPTION: RHCU INTERTIE TO RRC LOOP B REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-109	4RRC(4)B-7	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-109	4RRC(4)B-7PR1	PWS												NOTE 1
RRC-109	4RRC(4)B-7PR2	PWS												NOTE 1
RRC-109	4RRC(4)B-8	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-109	4RRC(4)B-9	PIPE TO EL	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-109	4RRC(4)B-10	EL TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-109	4RRC(4)B-10PR	PWS												NOTE 1
RRC-109	4RRC(4)B-11	PIPE TO VALVE SAFE END	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			
RRC-109	4RRC(4)B-12	SAFE END TO VALVE	B-F	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-29			DISSIMILAR METAL WELD SS TO CS



REFERENCES:
WSH/BECON/GERI ISOMETRIC
RRC-1946-1 REV 3



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 1		
ENGR: D TIMMINS	DRAWN: K.McA	DATE: 2.27.79	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
2"RRC (G)-45	6	80S	0.218	SA 312 TP 304	SS	NA

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RRC LOOP A DRAIN

DWG NO: RRC-110 REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	7.31.79	ISSUED FOR USE	K.McA	[illegible]	[illegible]

WHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 1 of 1

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RRC(6)-4S

DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: RRC LOOP A DRAIN

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-110	2 RRC(6) A-1	RED TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-110	2 RRC(6) A-2	EL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-110	2 RRC(6) A-3	PIPE TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-110	2 RRC(6) A-4	EL TO VALVE	B-J		X		X			PTP-1 QCS&I-002				
RRC-110	RRC-V-51A	VALVE BOLTING	B-G-2			X				QCS&I-002				
RRC-110	2 RRC(6) A-5	VALVE TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-110	2 RRC(6) A-6	PIPE TO VALVE	B-J		X		X			PTP-1 QCS&I-002				
RRC-110	RRC-V-52A	VALVE BOLTING	B-G-2			X				QCS&I-002				

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: Baseline

SYSTEM OR COMPONENT NO. RRC(6)-4S

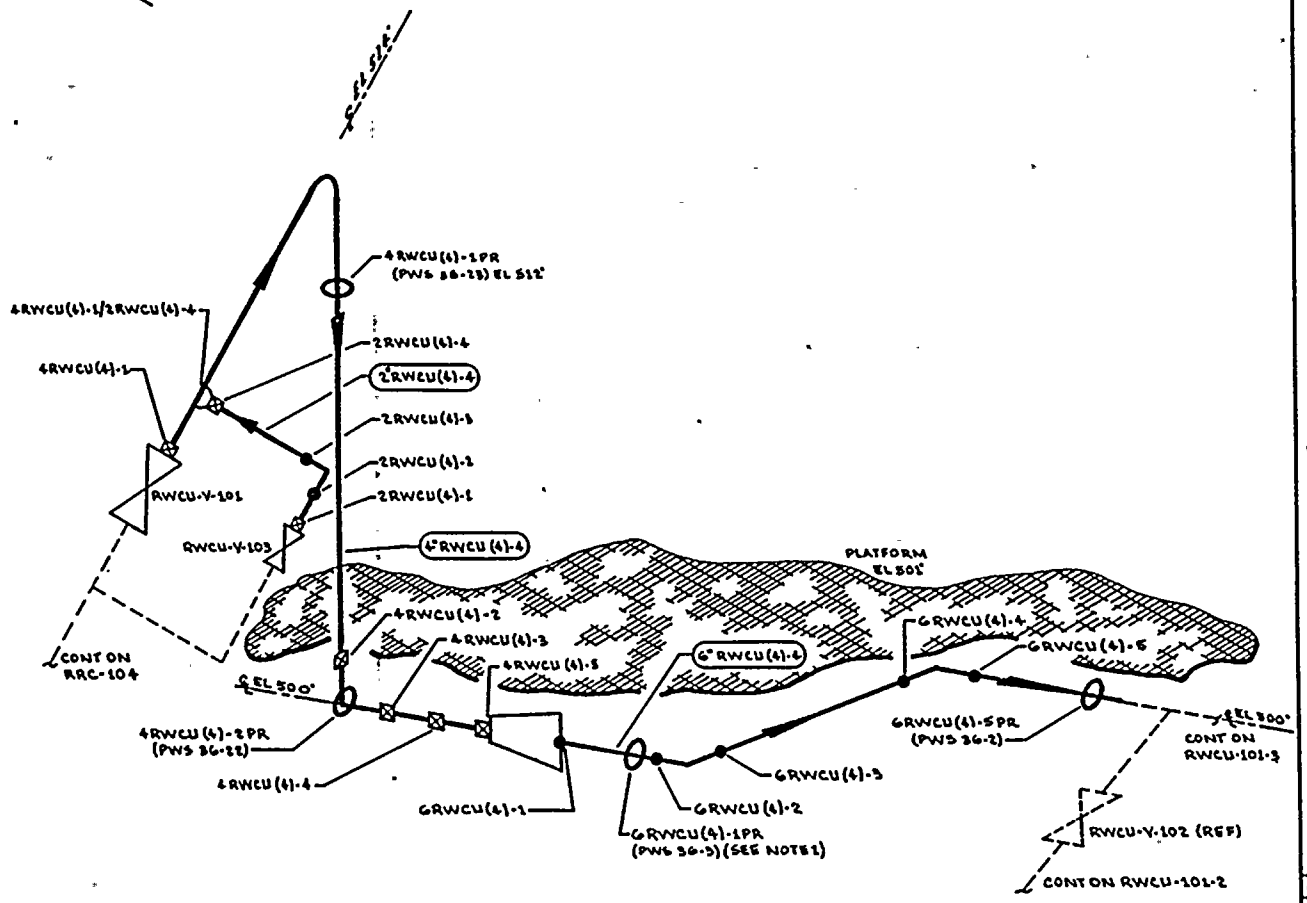
DATE: 7/27/79

PERIOD: N/A

DESCRIPTION: RRC LOOP B DRAIN

REVISION: 0

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RRC-111	2 RRC(6) A-1	RED TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-111	2 RRC(6) A-2	EL TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-111	2 RRC(6) A-3	EL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-111	2 RRC(6) A-4	PIPE TO VALVE	B-J		X		X			PTP-1 QCS&I-002				
RRC-111	RRC-V-51B	VALVE BOLTING	B-G-2			X				QCS&I-002				
RRC-111	2 RRC(6) A-5	VALVE TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-111	2 RRC(6) A-6	PIPE TO EL	B-J		X		X			PTP-1 QCS&I-002				
RRC-111	2 RRC(6) A-7	EL TO PIPE	B-J		X		X			PTP-1 QCS&I-002				
RRC-111	2 RRC(6) A-8	PIPE TO VALVE	B-J		X		X			PTP-1 QCS&I-002				
RRC-111	RRC-V-52B	VALVE BOLTING	B-G-2			X				QCS&I-002				

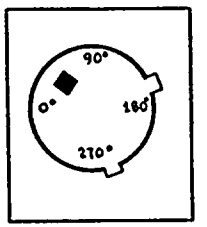


NOTES:

1. ACCESS TO WELD GRWCU(4)-2 REQUIRES REMOVAL OF GRWCU(4)-1PR.

REFERENCES

BOWEN & CRAIL ISOMETRIC
RWCU-B11-1.2 REV 3



KEY PLAN

QUALITY CLASS: 1	ASME CODE CLASS: 1	
ENGR: D TIMMING	DRAWN: K.M.& A	DATE: 6-23-78

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
4"RWCU(4)-4	4	80	0.337	SA 106 GR B	CS	UT-30
6"RWCU(4)-4	6	80	0.432	SA 106 GR B	CS	UT-28
2" RWCU(4)-4	2	160	0.343	SA 106 GR B	CS	NA

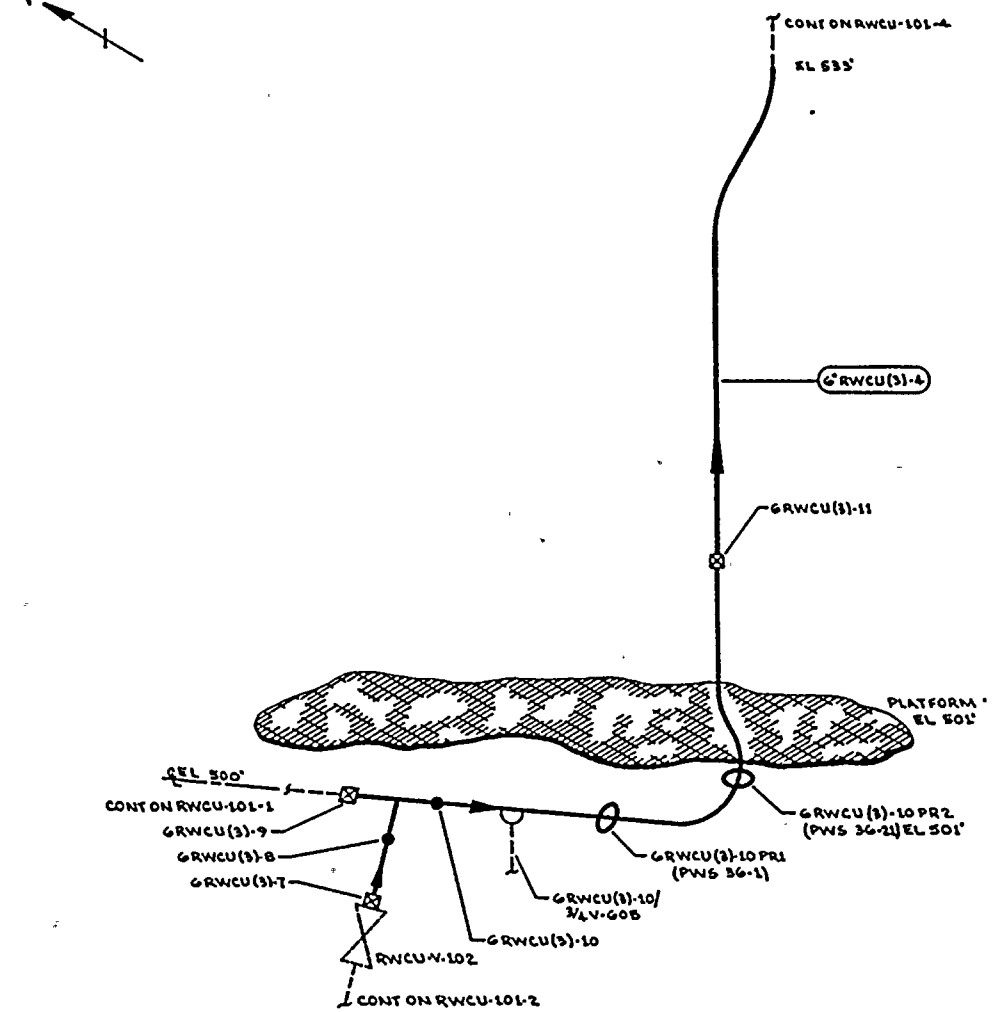
NO	DATE	REVISION	BY	CHKD	APPVD
1	7-11-79	REVISED CAL BLOCK REF TO UT-28,30	K.Mel	[illegible]	[illegible]
0	11-28-78	ISSUED FOR USE	K.M.&	[illegible]	[illegible]
A	9-28-78	ISSUED FOR INFORMATION ONLY	K.M.&	DJ	DJR

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

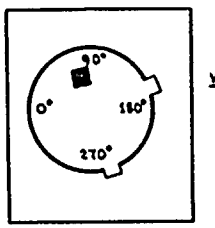
TITLE:
RPV DRAIN TO RWCU

DWG NO: RWCU-101-1 REV 1



NOTES:

REFERENCES:
BOVEE & CRAIL ISOMETRIC
RWCU-B12-2 REV 4



KEY PLAN

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RWCU(3)-4	6	80	0.432	SA 106 GR B	CS	UT-28

NO	DATE	REVISION	BY	CHKD	APPVD
1	7-12-79	REVISED CAL BLOCK REF TO UT-28	[illegible]	[illegible]	[illegible]
0	12-27-78	ISSUED FOR USE	[illegible]	[illegible]	[illegible]
A	9-12-78	ISSUED FOR INFORMATION ONLY	[illegible]	DJ	[illegible]

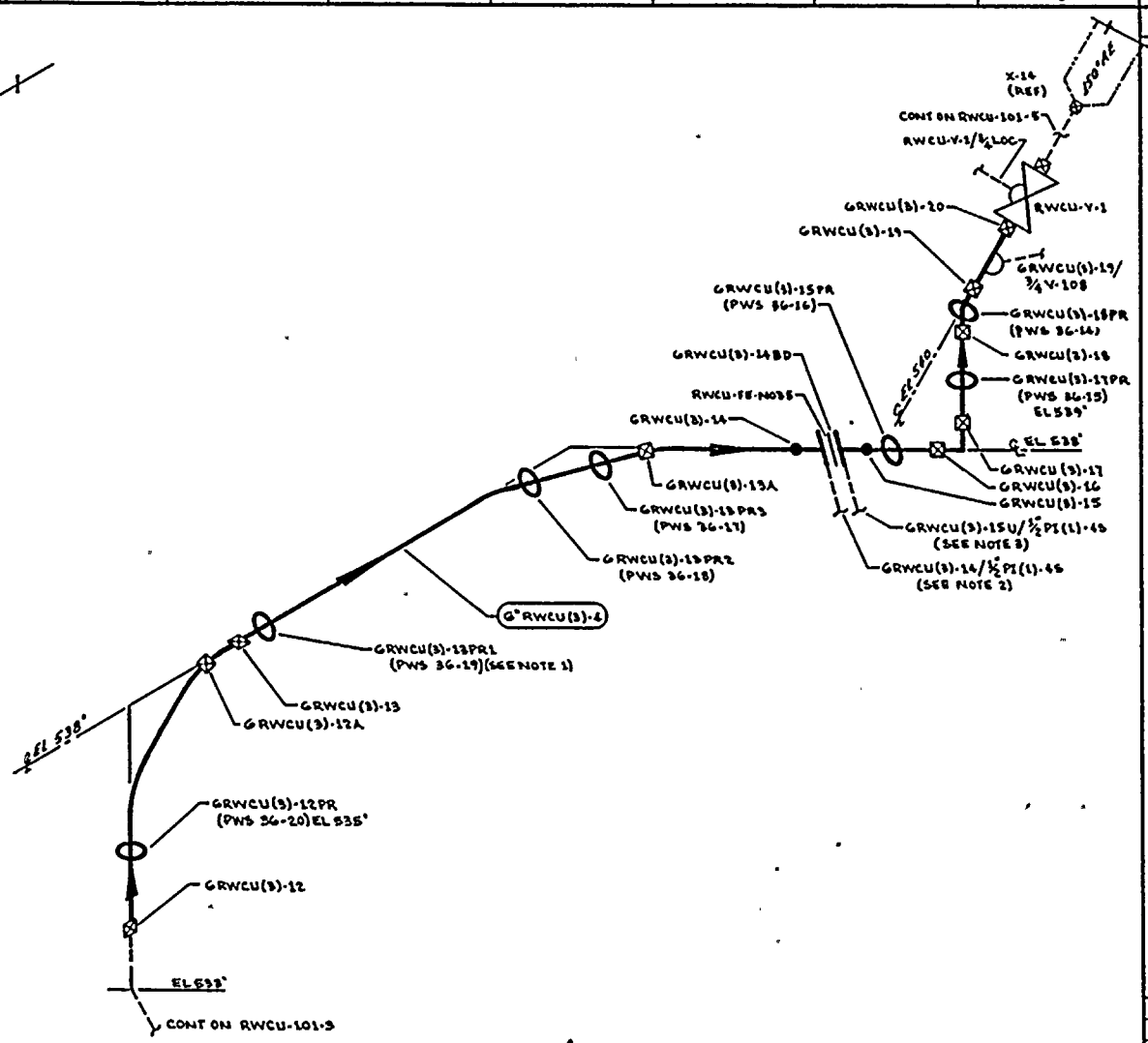
QUALITY CLASS: 1 | ASME CODE CLASS: 1
ENGR: D TIMMINS | DRAWN: K. McA | DATE: 6-23-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RWCU MAIN HEADER FROM RRC

DWG NO: RWCU-101-3 | REV 1

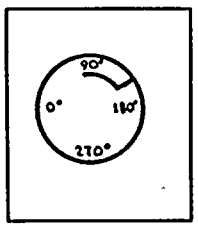


NOTES:

1. ACCESS TO WELD GRWCU(3)-13 REQUIRES REMOVAL OF GRWCU(3)-13PR1.
2. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-79A) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.
3. EXTEND LEAKAGE EXAM THROUGH CONTAINMENT PENETRATION (X-79B) THROUGH EXCESS FLOW CHECK VALVE TO INSTRUMENT TUBING CONNECTION.

REFERENCES:

BOVEE & CRAIL ISOMETRIC
RWCU-812-3.7 REV 2



KEY PLAN

QUALITY CLASS: 1		ASME CODE CLASS: 1
ENGR'D TIMMINS	DRAWN: KMcL	DATE: 6-26-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
6"RWCU(3)-4	6	80	0.432	SA 106 GR B	CS	UT-28

NO	DATE	REVISION	BY	CHKD	APPVD
1	2-27-79	CHANGED CAL BLOCK FROM UT-27 TO UT-28, WELDS 36-17, 18 & 19 TO FIELD WELDS. ADDED FIELD WELD 538 & 539.	KMcL		
0	12-22-78	ISSUED FOR USE	KMcL		
A	9-22-78	ISSUED FOR INFORMATION ONLY	KMcL		

WNP-2
WELD & COMPONENT IDENTIFICATION DIAGRAM

TITLE:
RWCU MAIN HEADER FROM RRC

DWG NO: RWCU-101-4 REV 1

WHP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE

SYSTEM OR COMPONENT NO. RHCU(4)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RPV DRAIN TO RHCU

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD VOL.	METHOD SUR.	METHOD VT-1	METHOD VT-2	METHOD VT-3	METHOD VT-4	PROCEDURE	CAL. BLOCK	INSERVICE REQUIREMENTS	INSERVICE YEAR OF INTERVAL	REMARKS
RHCU-101	6RHCU(4)-1	RED TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-1PR	PHS												NOTE 1
RHCU-101	6RHCU(4)-2	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-3	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-4	PIPE TO EL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-5	EL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(4)-5PR	PHS												NOTE 1
RHCU-101	4RHCU(4)-1	VALVE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(4)-1/ 2RHCU(4)-4	PIPE TO HOL	B-J		X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 2 of 12

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHCU(4)-4, RHCU(3)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RPV DRAIN TO RHCU | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	4RHCU(4)-1PR	PHS												NOTE 1
RHCU-101	4RHCU(4)-2	PIPE TO EL	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(4)-2PR	PHS												NOTE 1
RHCU-101	4RHCU(4)-3	EL TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(4)-4	PIPE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(4)-5	PIPE TO RED	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	RHCU-V-106	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	RHCU-V-106/ 3/4 LOC	STEM LEAK OFF	B-P				X			QCS&I-002				
RHCU-101	4RHCU(3)-1	VALVE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(3)-2	PIPE TO TEE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 3 of 12

INTERVAL: BASELINE / | SYSTEM OR COMPONENT NO. RHCU(3)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RPV DRAIN TO RHCU | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	4RHCU(3)-3	TEE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			
RHCU-101	4RHCU(3)-4	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			
RHCU-101	4RHCU(3)-4BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	4RHCU(3)-5	TEE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			
RHCU-101	4RHCU(3)-6	PIPE TO RED	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			
RHCU-101	RHCU-V-100	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	RHCU-V-100/ 3/4 LOC	STEM LEAK OFF	B-P				X			QCS&I-002				
RHCU-101	4RHCU(3)-7	VALVE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			
RHCU-101	4RHCU(3)-8	PIPE TO TEE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-30			

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 4 of 12

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHCU(3)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RPV DRAIN TO RHCU | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	4RHCU(3)-9	TEE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(3)-10	PIPE TO FLANGE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(3)-10BD	FLANGE TO BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	4RHCU(3)-11	TEE TO PIPE	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	4RHCU(3)-12	PIPE TO RED	B-J	X						UTP-10	UT-30			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	2RHCU(4)-1	VALVE TO PIPE	B-J		X					PTP-1				
							X			QCS&I-002				
RHCU-101	2RHCU(4)-2	PIPE TO EL	B-J		X					PTP-1				
							X			QCS&I-002				
RHCU-101	2RHCU(4)-3	EL TO PIPE	B-J		X					PTP-1				
							X			QCS&I-002				
RHCU-101	2RHCU(4)-4	PIPE TO WOL	B-J		X					PTP-1				
							X			QCS&I-002				

WRP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 5 of 12

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHCU(3)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RHCU MAIN HEADER FROM RRC | REVISION: 1

DIG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	6RHCU(3)-1	RED TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-1PR	PHS												NOTE 1
RHCU-101	6RHCU(3)-2	PIPE TO TEE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-3	RED TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-3PR	PHS												NOTE 1
RHCU-101	6RHCU(3)-4	PIPE TO TEE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-5	TEE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-6	PIPE TO VLV	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 6 of 12

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHCU(3)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RHCU MAIN HEADER FROM RRC | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	RHCU-V-102	VALVE BODY	B-M-2					X		QCS&I-002				
RHCU-101	RHCU-V-102	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	RHCU-V-102/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				

WNP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 7 of 12

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHCU(3)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RHCU MAIN HEADER FROM RRC | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	6RHCU(3)-7	VALVE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-8	PIPE TO TEE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-9	PIPE TO TEE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-10	TEE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-10/ 3/4 V-605	DRAIN CONN	B-P				X			QCS&I-002				
RHCU-101	6RHCU(3)-10PR1	PWS												NOTE 1
RHCU-101	6RHCU(3)-10PR2	PWS												NOTE 1

VHP- 2

PROGRAM PLAN AND SCHEDULE

PAGE 8 of 12

INTERVAL: BASELINE , ____

SYSTEM OR COMPONENT NO. RHCU(3)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RHCU MAIN HEADER FROM RRC

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	6RHCU(3)-11	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RHCU-101	6RHCU(3)-12	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RHCU-101	6RHCU(3)-12PR	PHS												NOTE 1
RHCU-101	6RHCU(3)-13	PIPE TO PIPE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RHCU-101	6RHCU(3)-13PR1	PHS												NOTE 1
RHCU-101	6RHCU(3)-13PR2	PHS												NOTE 1
RHCU-101	6RHCU(3)-13PR3	PHS												NOTE 1
RHCU-101	6RHCU(3)-14	PIPE TO FLANGE	B-J	X	X		X			UTP-10 PTP-1 QCS&I-002	UT-28			
RHCU-101	6RHCU(3)-14BD	FLANGE BOLTING	B-G-2			X				QCS&I-002				

MRP- 2

PROGRAM PLAN AND SCHEDULE

INTERVAL: BASELINE /

SYSTEM OR COMPONENT NO. RHCU(3)-4

DATE: 7/27/79

PERIOD: NA

DESCRIPTION: RHCU MAIN HEADER FROM RRC

REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RCHU-101	6RHCU(3)-15	FLANGE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RCHU-101	6RHCU(3)-15PR	PHS												NOTE 1
RHCU-101	6RHCU(3)-16	PIPE TO ELL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-17	ELL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-17PR	PHS												NOTE 1
RHCU-101	6RHCU(3)-18	PIPE TO ELL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-18PR	PHS												NOTE 1
RHCU-101	6RHCU(3)-19	ELL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE. | PAGE 10 of 12

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHCU(3)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RHCU MAIN HEADER FROM RRC | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	6RHCU(3)-19/ 3/4 V-108	TEST CONN	B-P				X			QCS&I-002				
RHCU-101	6RHCU(3)-20	PIPE TO VALVE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	RHCU-V-1	VALVE BODY	B-M-2					X		QCS&I-002				
RHCU-101	RHCU-V-1	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	RHCU-V-1/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				
RHCU-101	6RHCU(3)-21	VALVE TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-22	PIPE TO PENE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-23	PENE TO ELL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 11 of 12

INTERVAL: BASELINE / | SYSTEM OR COMPONENT NO. RHCU(3)-4 | DATE: 7/27/79

PERIOD: NA | DESCRIPTION: RHCU MAIN HEADER FROM RRC | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	6RHCU(3)-23/ 3/4V-612	VENT CONN	B-P				X			QCS&I-002				
RHCU-101	6RHCU(3)-24	ELL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-24/ 3/4V-3	TEST CONN	B-P				X			QCS&I-002				
RHCU-101	6RHCU(3)-25	PIPE TO ELL	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-25/ 3/4V-608	DRAIN CONN	B-P				X			QCS&I-002				
RHCU-101	6RCHU(3)-26	ELL TO PIPE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				
RHCU-101	6RHCU(3)-27	PIPE TO VALVE	B-J	X						UTP-10	UT-28			
					X					PTP-1				
							X			QCS&I-002				

WHP- 2 | PROGRAM PLAN AND SCHEDULE | PAGE 12 of 12

INTERVAL: BASELINE | SYSTEM OR COMPONENT NO. RHCU(3)-4 | DATE: 7/27/79

PERIOD: IIA | DESCRIPTION: RHCU MAIN HEADER FROM RRC | REVISION: 1

DWG. NO.	IDENT. NO.	DESCRIPTION	SECT. XI EXAM	METHOD						PROCEDURE	CAL. BLOCK	INSERVICE		REMARKS
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4			REQUIREMENTS	YEAR OF INTERVAL	
RHCU-101	RHCU-V-4	VALVE BODY	B-M-2					X		QCS&I-002				
RHCU-101	RHCU-V-4	VALVE BOLTING	B-G-2			X				QCS&I-002				
RHCU-101	RHCU-V-4/ 3/4 LOC	STEM LEAKOFF	B-P				X			QCS&I-002				

9.0--VISUAL EXAMINATION PROGRAM

9.1 INTRODUCTION

Preservice visual examination for the WNP-2 Class 1, 2 and 3 reactor coolant systems will be performed by WPPSS personnel to ASME Section XI rules as published in the 1974 edition with addenda through Summer 1975. These examination activities will be carried out separately from the volumetric and surface non-destructive examination activities being conducted by the NDE contractor, Lambert-MacGill-Thomas, Inc.

The visual preservice examinations involve primarily support structures, hangers and snubbers. The system pressure test program is described in 9.2.4 below. The program presented here subdivides the visual examinations into four categories: VT-1, 2, 3 and 4 as described by ASME Code Section XI, 1977 edition and defined in 9.2 below.

The WPPSS visual program includes procedures and a training program described herein which have been prepared in response to the requirements for metallurgical, mechanical and hydraulic integrity described in the 1977 edition of Section XI of the ASME Code.

9.2 PROGRAM DESCRIPTION

Visual examinations are organized into a four-part program corresponding to each of the "VT" categories.

Inspection plans will be based on Inspection Boundary Diagrams and the Weld and Component Identification Diagrams found in Sections 7.0 and 8.0 of this plan.

The four visual examination categories of ASME Section XI, 1977 edition, are defined as:

Method VI-1--Visual examination for component mechanical and metallurgical condition to document the presence, if any, of cracks, wear, corrosion, erosion or physical damage. This examination is performed on bolting and pump and valve body interiors.

Method VT-2 Visual examination for evidence of leakage from pressure retaining components during pressure or functional tests. This examination is performed on both exempt and nonexempt pressure retaining components.

Method VT-3--Visual examination to locate mechanical and structural misalignment, loose connections, wear or erosion, or any visual evidence that indicates equipment degradation. Examinations may include the use of dimensional measuring instruments or torquing devices to confirm visual observations. This examination is performed on rigid hangers, supports and restraints.

Method VT-4--Visual examination to confirm functional adequacy, verification of settings or freedom of motion for components or devices such as mechanical and hydraulic snubbers, components support, pumps, valves and spring loaded and constant weight hangers.

9.2.1 Class 1 Components

The Class 1 components requiring visual examination per Table IWB-2600 of Section XI will be examined as outlined in this program plan and listed in the schedule tables in Section 8.0.

The component ISI identification numbers shown on the program plan and schedule tables in Section 8.0 and the corresponding weld and component identification diagrams will be used on all data sheets and records.

9.2.2 Class 2 Components

The Class 2 components requiring visual examination per Table IWC-2600 of Section XI will be examined as outlined in this program plan and

listed in the program plan and schedule tables in Section 8.0. For systems requiring only a visual examination, the program described for Class 3 components below will be applied.

9.2.3 Class 3 Components

The Class 3 components listed in Section 8.0 of this program plan will be examined for evidence of leakage according to VT-2 examination criteria.

Buried or inaccessible components capable of pressure isolation will be given a pressure test to demonstrate structural integrity. Affected systems exceeding 4" nominal pipe diameter will be examined to determine hanger and restraint condition or evidence of misalignment using VT-3 and VT-4 examination criteria as appropriate.

Components will be identified by weld and component identification diagrams using the construction numbering system.

9.2.4 Visual Examination for Evidence of Leakage (VT-2)

It is the Supply System's intent to reference the hydrostatic test report required by Section III of the ASME Code to document the VT-2 preservice examination performance. This is allowed by Paragraph IWA-5210(b) of ASME Section XI. In addition, the Supply System will reconfirm pressure boundary integrity for components whose pressure boundary is disassembled following the Section III hydrostatic test (e.g., RPV head removal, valve packing replacement, etc.). This is required by the normal plant startup and operating procedures. The above satisfies the preservice visual examination requirements for evidence of leakage of ASME Section XI, Sections IWA-, IWB-, IWC-, and IWD-5000. Details regarding the inservice inspection program with regard to the VT-2 leakage tests will be provided in the WNP-2 Inservice Inspection Program Plan.

9.3 PROCEDURES AND INSTRUCTIONS

Visual examinations will be performed in accordance with the examination procedures and instructions in Section 10.0 of this program entitled "PROCEDURES".

9.4 PERSONNEL TRAINING

Personnel performing preservice visual examinations required by ASME Section XI shall be trained and certified in accordance with ODI 902, "WPPSS Training and Certification Procedure".

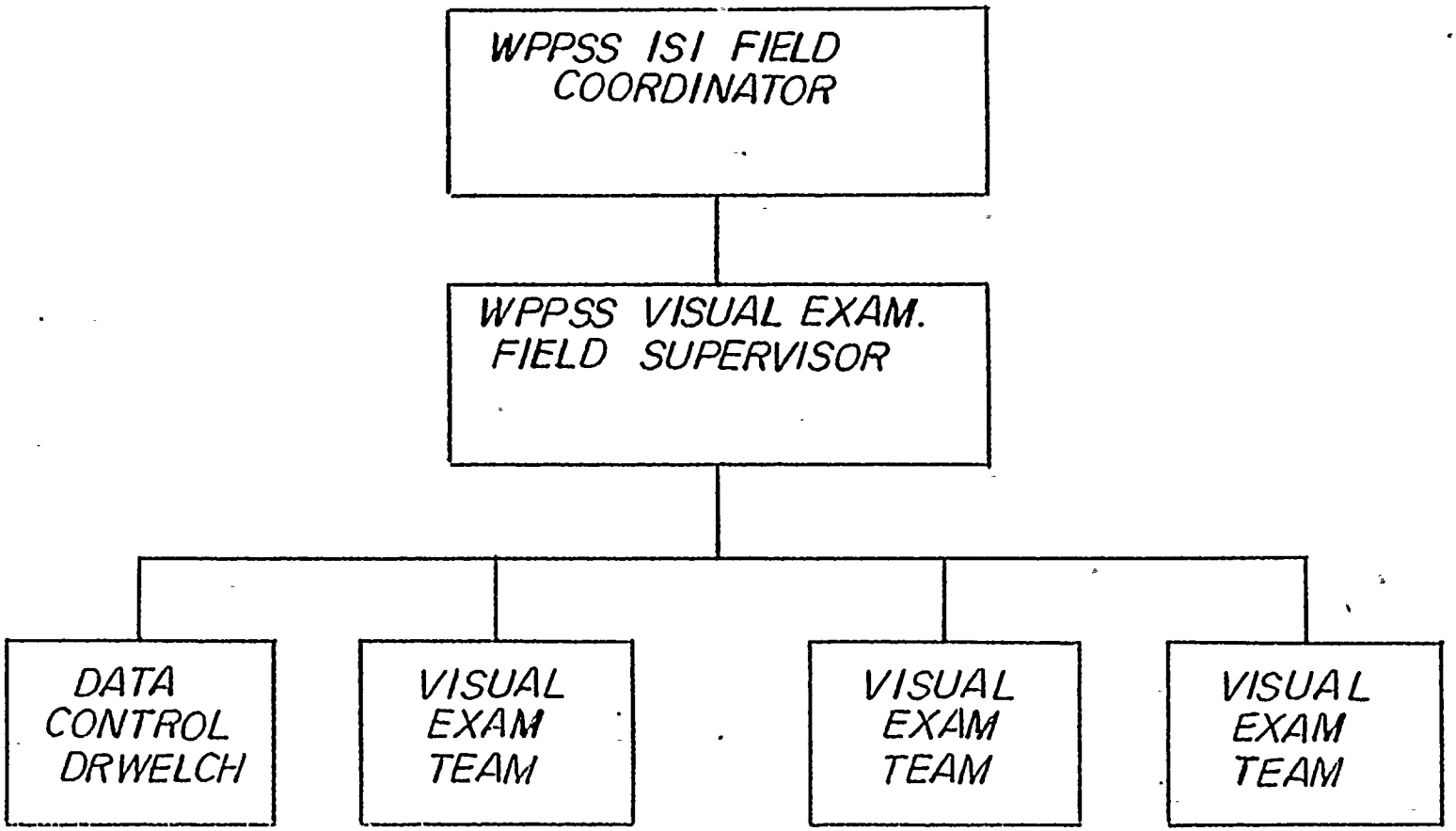
9.5 MANAGEMENT PLAN

The preservice visual examination program shall be under the direction of the Supply System's Field ISI Coordinator. He shall be responsible for the planning, scheduling, coordinating and technical control of the program, as illustrated in Figure 9.1.

Data control and reporting will be done in accordance with procedure INP 3-10, "Examination Data", found in Section 10.0, "PROCEDURES".

All data will be reviewed for deficiencies. Deficiencies will be reported as delineated in the Management Plan, Section 12.0, Part 12.6.

FIG 9.1
VISUAL EXAMINATION
WPPSS SITE ORGANIZATION



Date 7-27-79
Revision 1

remove the device from service to check the calibration after only 4 hours, as the examination of a single weld in a large vessel may require in excess of 4 hours when the setup and position calibration time is included. Each time the device is removed, it's positioning system must be recalibrated upon re-installing it. The percentage of equipment handling and positioning system calibration time compared to actual examination time becomes prohibitive, and offsets the confidence in UT system calibration with potential error in positioning system calibration.

Should the UT equipment be found to be unacceptably out of calibration following up to 12 hours of use, the equipment will be recalibrated and the examinations performed during that time period will be repeated.

Date 1/8/79
Revision 0

PROCEDURE LIST

PROCEDURE TITLE	NUMBER	REV.	TAB
Magnetic Particle Examination	MTP-1	1	1
Liquid Penetrant Examination	PTP-1	1	2
Automatic Data Recording	UTP-6	0	3
Ultrasonic Examination of Nuclear Coolant System Piping	UTP-10	1	4
Ultrasonic Examination of Nozzle Forging Inner Radius	UTP-24	0	5
Ultrasonic Examination of RPV Flange Weld	UTP-25	0	6
Operating Procedure for Ultrasonic Examinations with Mechanized Equipment	UTP-26	0	7
Ultrasonic Examination of Nozzle-to-Vessel Welds	UTP-27	0	8
Ultrasonic Examination of Flange Ligaments	UTP-28	0	9
Ultrasonic Examination of Nozzle Bore	UTP-29	0	10
Ultrasonic Examination of RPV Butt Welds and Adjacent Base Metal	UTP-30	0	11
Ultrasonic Examination of Austenitic Safe End Forgings	UTP-31	0	12
Ultrasonic Examination of PRV Studs	UTP-32	0	13
Ultrasonic Examination of RRC Pump Studs	UTP-33	0	14
Ultrasonic Examination of the RPV Support Skirt Weld	UTP-34	0	15
Ultrasonic Examination of Main Steam Flued Head	UTP-35	-	16
Not Used	UTP-36	-	17
Not Used	UTP-37	-	18
Not Used	UTP-38	-	19
Not Used	UTP-39	-	20
Not Used	UTP-40	-	21

Date 7/27/79
Revision 1

PROCEDURE TITLE	NUMBER	REV.	TAB
Weld Marking Procedure	MEP-2	0	22
Visual Examinations of Nuclear Power Plant Components	QCS&I-002	0	23
Document Control for the WNP-2 Preservice Inspection (Volumetric and Surface Examinations)	QA-28	0	24
Preservice Inspection	INP 3-3	1	25
Examination Data	INP 3-10	0	26
Data Evaluation	INP 3-11	0	27
Control of Inservice Inspection Activities	EDP-9.0	0	28
Preparation of PSI Plan	EDP-9.2	0	29
Conduct of Preservice Examinations	EDP-9.3	0	30
WNP-2 PSI Notification of Reportable Indication	QA-31	0	31

Date 1/8/79
Revision 0

11.0--ULTRASONIC CALIBRATION STANDARDS

This section of the WNP-2 PSI Program Plan provides a description of the design and identifies the applicability of each ultrasonic calibration block which will be used to complete the ultrasonic examinations identified in this Program Plan. This section is divided into two subsections. Subsection 11.1 presents the UT calibration blocks which will be used in completing examinations of the RPV, including top and bottom heads, nozzle-to-shell welds and inner radii, and nozzle safe end weld examinations. Subsection 11.2 presents those calibration blocks which will be used in completing examinations of the piping systems. Note that the RPV nozzle safe end welds are identified as piping welds on the Weld and Component Identification Diagrams corresponding to the respective piping system. However, those welds will be examined, with the exception of certain of the smaller vessel nozzles, using mechanized equipment during the vessel mechanized examinations. These UT blocks were also designed and fabricated by the NSSS supplier, as were the vessel blocks. The balance of the piping weld blocks were designed and fabricated by the Supply System as detailed below.

11.1 VESSEL STANDARDS

The design drawings on the following pages illustrate the ultrasonic calibration blocks which will be used to perform ultrasonic examinations of the RPV, including top and bottom heads, the nozzle-to-shell welds and inner radii, and the nozzle safe end welds. Table 11-1 lists those UT blocks, including the block identification number which will be used exclusively whenever referencing the calibration block on data sheets or other records, and the corresponding design drawing number. The block identification number is the same number referenced from the Program Plan and Schedule Tables and the Weld and Component Identification Diagrams found in Section 8.0, "WELD ID DIAGRAMS".

TABLE 11-1

RPV ULTRASONIC CALIBRATION BLOCKS

Sheet 1 of 2
Date 7/27/79
Revision 1

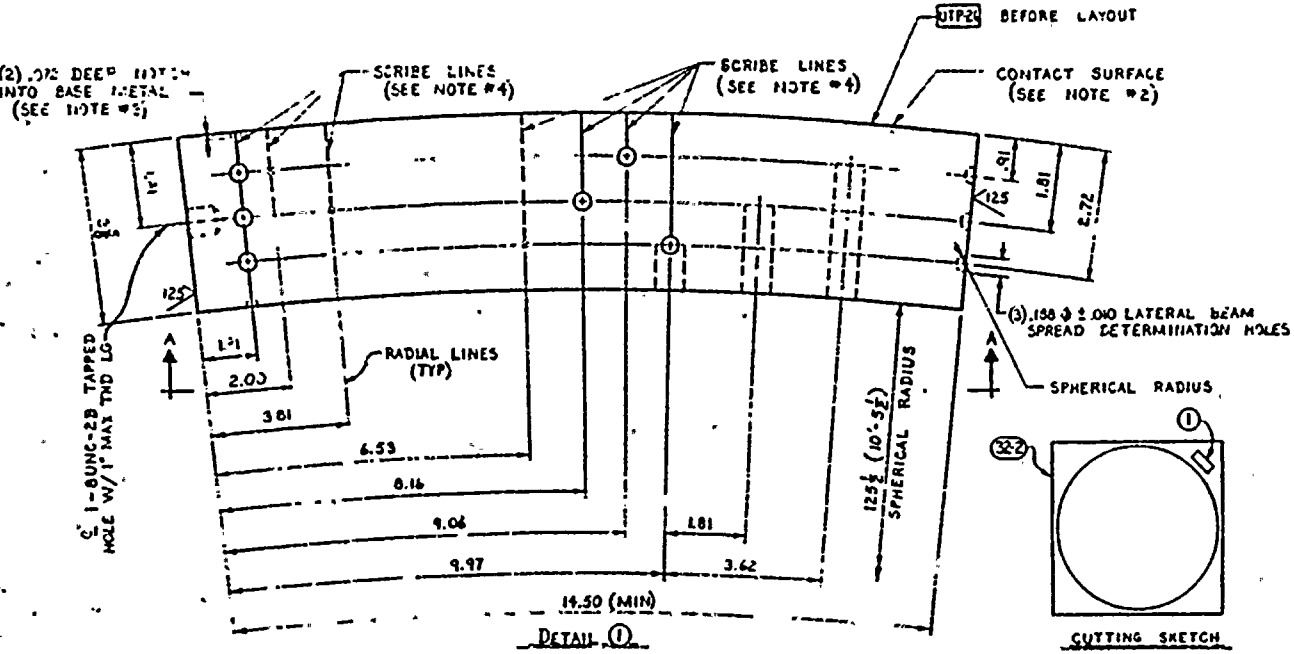
BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-101	UTCB-101	NOZZLE TO SAFE-END, N1	CS-SS	22"	1 29/32"	SA-508, SA-336
UT-102	UTCB-102	NOZZLE TO SAFE-END, N4, N5, N6, N16	CS-INCO	12"	1 1/8" 1 5/16"	SA-508, SB-166
UT-104	UTCB-104	NOZZLE TO SAFE-END, N3	CS-CS	24"	1 5/8"	SA-508, Gr. B
UT-105	UTCB-105	SAFE-END TO STUB, N4	INCO-INCO	12"	15/16"	SB-166-70
UT-106	UTCB-106	SAFE-END OR STUB TO SAFE-END EXTENSION, N4, N5, N6, N16	INCO-CS	10/12"	13/16"	SB-166, SA-508
UT-107	UTCB-107	NOZZLE TO FLANGE, N7, N18	CS-CS	6"	1 3/4"	SA-508
UT-108	UTCB-108	NOZZLE TO FLANGE, N8	CS-CS	4"	1 1/4"	SA-508
UT-109	UTCB-109	NOZZLE TO SAFE-END, N9	CS-SS	4"	3/4"	SA-508, SA-336
UT-110	UTCB-110	NOZZLE TO SAFE-END, N10	CS-CS	5"	3/4"	SA-508
UT-111	UTCB-111	NOZZLE TO SAFE-END, N2	CS-SS	12"	1 1/4"	SA-508, SA-182, F 316L
UT-115	UTCB-203	TOP HEAD DOLLAR PLATES	CS	N/A	3 5/8"	SA-533, Gr. B
UT-116	UTCB-204	TOP HEAD RADIAL PLATES	CS	N/A	5 1/8"	SA-533, Gr. B
UT-117	UTCB-205	BOTTOM HEAD DOLLAR PLATES	CS	N/A	8"	SA-533, Gr. B
UT-118	UTCB-206	BOTTOM HEAD RADIAL PLATES	CS	N/A	6 3/4"	SA-533, Gr. B

TABLE 11-1

RPV ULTRASONIC CALIBRATION BLOCKS

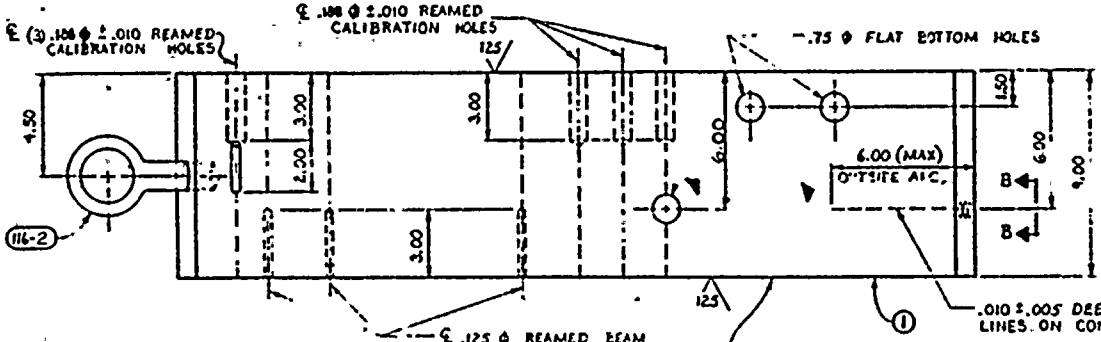
Sheet 2 of 2
Date 7/27/79
Revision 1

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-119	UTCB-207	SHELL COURSE #1	CS	N/A	9 3/4"	SA-533, Gr. B
UT-120	UTCB-208	SHELL COURSE #2 & #3	CS	N/A	6 9/16"	SA-533, Gr. B
UT-121	UTCB-209	SHELL COURSE #4	CS	N/A	7 1/4"	SA-533, Gr. B
UT-122	UTCB-210	NOZZLE INNER RADIUS	CS	N/A	LATER	SA-533, Gr. B
UT-130	UTCB-210	RPV STUDS	CS	6"	N/A	SA-540, Gr. 23
UT-132	UTCB-211	RPV NUTS	CS	6"	N/A	SA-540, Gr. 23

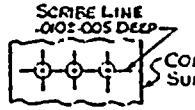


ITEM NO.	PART NO.	QTY.	DESCRIPTION	MATERIAL	WEIGHT
1	115-1		UT CALIBRATION BLOCK (5K X 3 3/8) (M/F L/O R C/F TOP HEAT DOLLAR R)		
1	116-2		PLAIN PATTERN EYE BOLT 1 3/4 ID x 3 3/4 OD x 2 1/2 CG SHANK W/ 1-8UNC 2A THD		

NOTES:
1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.
2. CONTACT SURFACE TO BE FREE OF RUST AND SCALE AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
3. NOTCHES TO BE MACHINED WITH .125 DIA FLAT END MILL.
4. SCRIBE .010 ± .005 DEEP LINES FROM ℄ OF HOLES RADIALLY, TO AND THEN ACROSS THE CONTACT SURFACE.
5. ALL ARC DIMENSIONS ARE MEASURED ON INSIDE SURFACE, UNLESS OTHERWISE NOTED.
6. ALL DECIMAL DIMENSIONS ARE ±.03 UNLESS OTHERWISE NOTED.
7. BLOCK TO BE POST WELD HEAT TREATED A MINIMUM OF TWO HOURS @ 1150°F. HEAT TREATMENT AFTER FORMING OR WELDING MAY BE USED TO MEET THIS REQUIREMENT.



MADE FROM: TOP HD DOL R
CONTRACT NO.: 72-2647
MATL SPEC: SA533, GR B, CL 1
HEAT NO.:
BASE METAL THK = 3 3/8
1/4 = .91 · 1/2 = 1.81 · 3/4 = 2.72



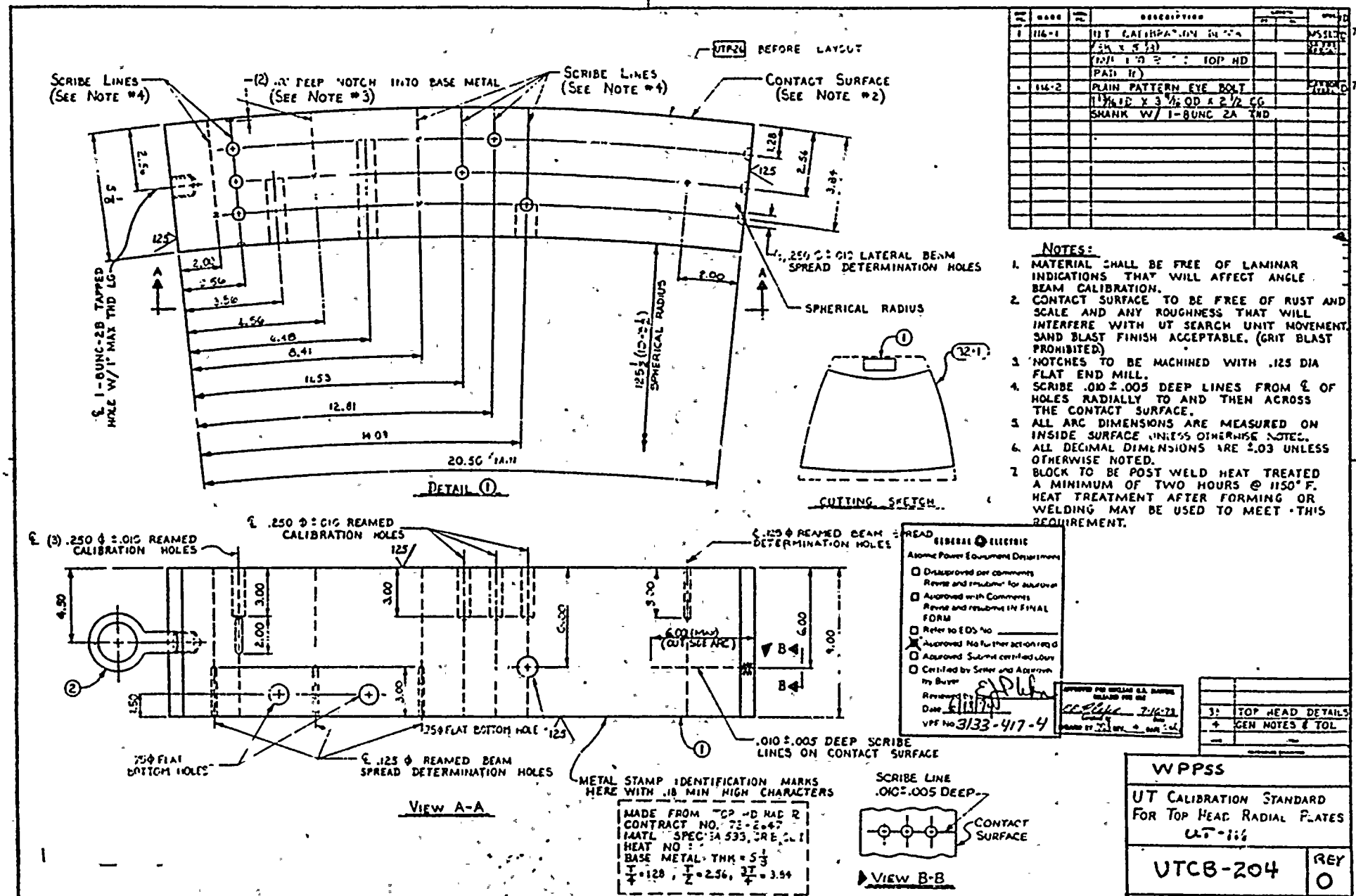
VIEW B-B

GENERAL ELECTRIC
Atomic Power Equipment Department
☐ Disapproved per comments. Revise and resubmit for approval
☐ Approved with Comments. Revise and resubmit in FINAL FORM
☐ Refer to EDS No. ____
☒ Approved. No further action req'd
☐ Approved. Submit certified copy
☐ Certified by Seller and Accepted by Buyer
Reviewed by: E.J. Pick
Date: 4/27/70
VPF No 3133-416-3

APPROVED FOR NUCLEAR U.S. MARINE [illegible]
[illegible] 2-16-72

.33	TOP HEAD DETAILS
+	GEN NOTES & TOL

WPPSS
UT CALIBRATION STANDARD FOR TOP HEAD DOLLAR PLATE
UT-115
UTCB-203
REV 0



ITEM	PART NO.	QTY	DESCRIPTION	MATERIAL	SPEC
1	116-1		UT CALIBRATION IN TOP HD		
			(SEE NOTE 3)		
			PAD R)		
2	116-2		PLAIN PATTERN EYE BOLT		
			SHANK W/ 1-8UNC 2A THD		

NOTES:

1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.
2. CONTACT SURFACE TO BE FREE OF RUST AND SCALE AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
3. NOTCHES TO BE MACHINED WITH .125 DIA FLAT END MILL.
4. SCRIBE .010 ± .005 DEEP LINES FROM ℄ OF HOLES RADIALLY TO AND THEN ACROSS THE CONTACT SURFACE.
5. ALL ARC DIMENSIONS ARE MEASURED ON INSIDE SURFACE UNLESS OTHERWISE NOTED.
6. ALL DECIMAL DIMENSIONS ARE ± .03 UNLESS OTHERWISE NOTED.
7. BLOCK TO BE POST WELD HEAT TREATED A MINIMUM OF TWO HOURS @ 1150° F. HEAT TREATMENT AFTER FORMING OR WELDING MAY BE USED TO MEET THIS REQUIREMENT.

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Atomic Power Equipment Department
VPF No. 3133-417-4

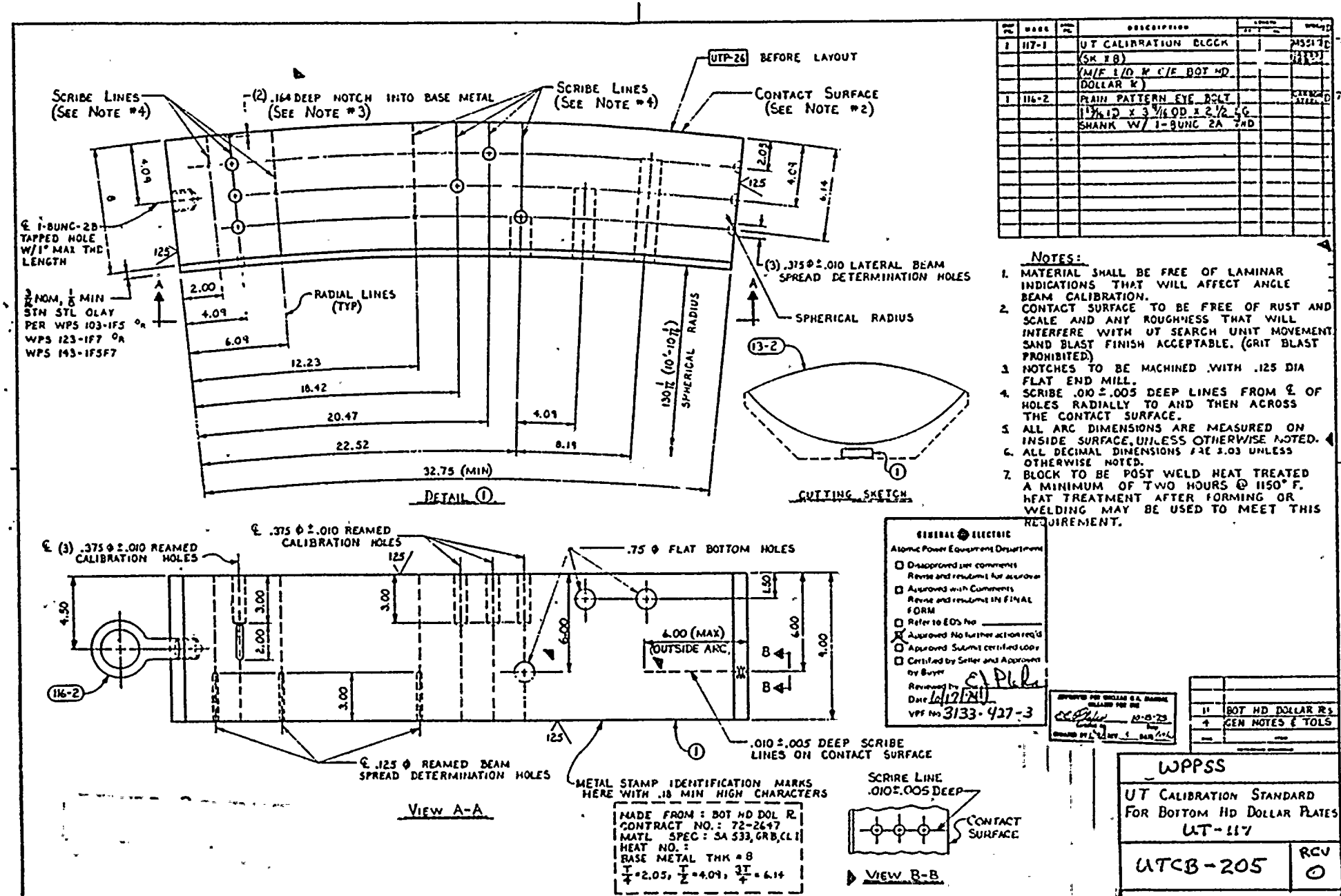
3	TOP HEAD DETAILS
+	GEN NOTES & TOL

WPPSS

UT CALIBRATION STANDARD FOR TOP HEAD RADIAL PLATES

UT-116

UTCB-204 REV 0



ITEM NO.	MARK	QTY REQ'D	DESCRIPTION	LENGTH	SPECIFICATION
1	117-1		UT CALIBRATION BLOCK (SK 18) (W/F 1/0 W C/E BOT HD DOLLAR R)		
1	116-2		PLAIN PATTERN EYE BOLT 1 3/4-8UN-2A X 3 5/16 OD X 2 1/2 SG SHANK W/ 1-8UNC 2A THD		

NOTES:

1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.
2. CONTACT SURFACE TO BE FREE OF RUST AND SCALE AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED.)
3. NOTCHES TO BE MACHINED WITH .125 DIA FLAT END MILL.
4. SCRIBE .010 ±.005 DEEP LINES FROM ℄ OF HOLES RADIALLY TO AND THEN ACROSS THE CONTACT SURFACE.
5. ALL ARC DIMENSIONS ARE MEASURED ON INSIDE SURFACE, UNLESS OTHERWISE NOTED.
6. ALL DECIMAL DIMENSIONS ARE ±.03 UNLESS OTHERWISE NOTED.
7. BLOCK TO BE POST WELD HEAT TREATED A MINIMUM OF TWO HOURS @ 1150° F. HEAT TREATMENT AFTER FORMING OR WELDING MAY BE USED TO MEET THIS REQUIREMENT.

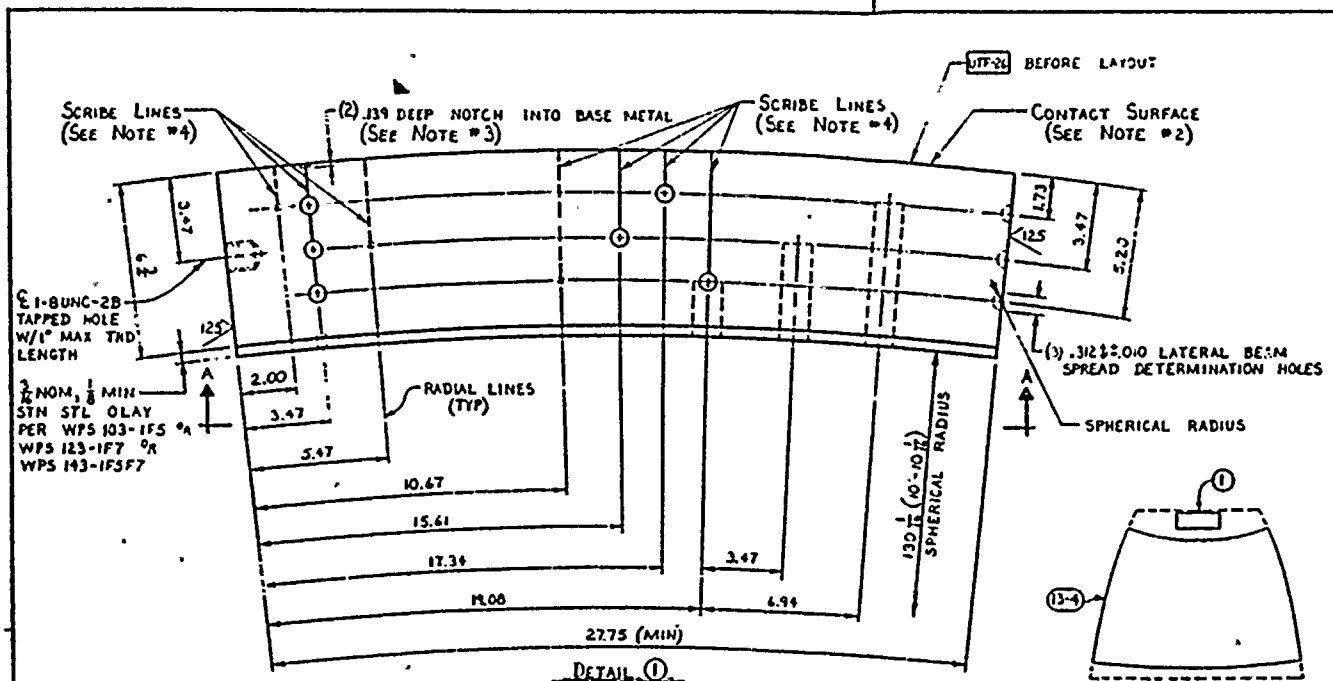
GENERAL ELECTRIC
Atomic Power Equipment Department
☐ Disapproved per comments. Revise and resubmit for approval
☐ Approved with Comments. Revise and resubmit IN FINAL FORM
☐ Refer to EDS No. ____
☒ Approved. No further action req'd
☐ Approved. Submit certified copy
☐ Certified by Seller and Approved by Buyer
Reviewed by E J Plska
Date 10/17/73
VPF No 3133-427-3

REV	DESCRIPTION
1	BOT HD DOLLAR RS
4	GEN NOTES & TOLS

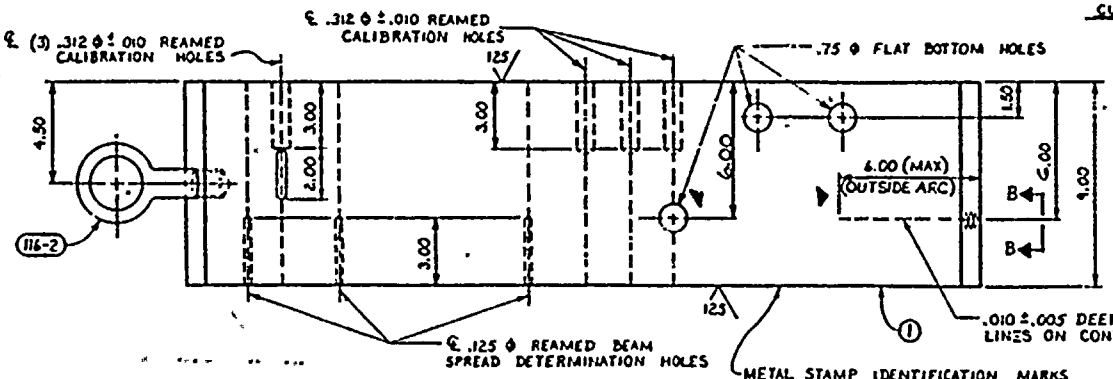
WPPSS

UT CALIBRATION STANDARD FOR BOTTOM HD DOLLAR PLATES UT-117

UTCB-205 | RCV 0

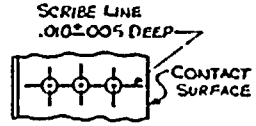


DETAIL ①



VIEW A-A

MADE FROM: BOT HD RAD R
CONTRACT NO.: 72-2647
MATL SPEC: SA 533, GR B, CL 1
HEAT NO.:
BASE METAL THK = 6¾
T/4 = 1.73, T/2 = 3.47, 3T/4 = 5.20



VIEW B-B

PC	MARK	QTY	DESCRIPTION	MATERIAL		SPEC
1	118-1		UT CALIBRATION BLOCK			MSS-21C
			K = 3.33			SPEC
			HALF 1.73 5.20 3.47 THD			
			PAD 9			
1	116-2		PLAIN PATTERN EYE BOLT			CEMA-252
			1⅝ ID X 3 9/16 OD X 2½ LG			
			SHANK W/ 1-8UNC 2A THD			

NOTES:
1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.
2. CONTACT SURFACE TO BE FREE OF RUST AND SCALE AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
3. NOTCHES TO BE MACHINED WITH .125 DIA FLAT END MILL.
4. SCRIBE .010 ± .005 DEEP LINES FROM ℄ OF HOLES RADIALLY TO AND THEN ACROSS THE CONTACT SURFACE.
5. ALL ARC DIMENSIONS ARE MEASURED ON INSIDE SURFACE, UNLESS OTHERWISE NOTED.
6. ALL DECIMAL DIMENSIONS ARE ± .03 UNLESS OTHERWISE NOTED.
7. BLOCK TO BE POST WELD HEAT TREATED A MINIMUM OF TWO HOURS @ 1150° F. HEAT TREATMENT AFTER FORMING OR WELDING MAY BE USED TO MEET THIS REQUIREMENT.

CUTTING SKETCH

GENERAL ELECTRIC
Atomic Power Equipment Department
- ☐ Disapproved per comments. Revise and resubmit for approval
- ☐ Approved with Comments. Revise and resubmit IR FINAL FORM
- ☐ Refer to E.D.'s No. _____
- ☒ Approved. No further action req'd
- ☐ Approved. Submit certified copy
- ☐ Certified by Seller and Accepted by Buyer

Reviewed by E.J. Plehn
Date 6/19/73
VPF No 3133-418-3

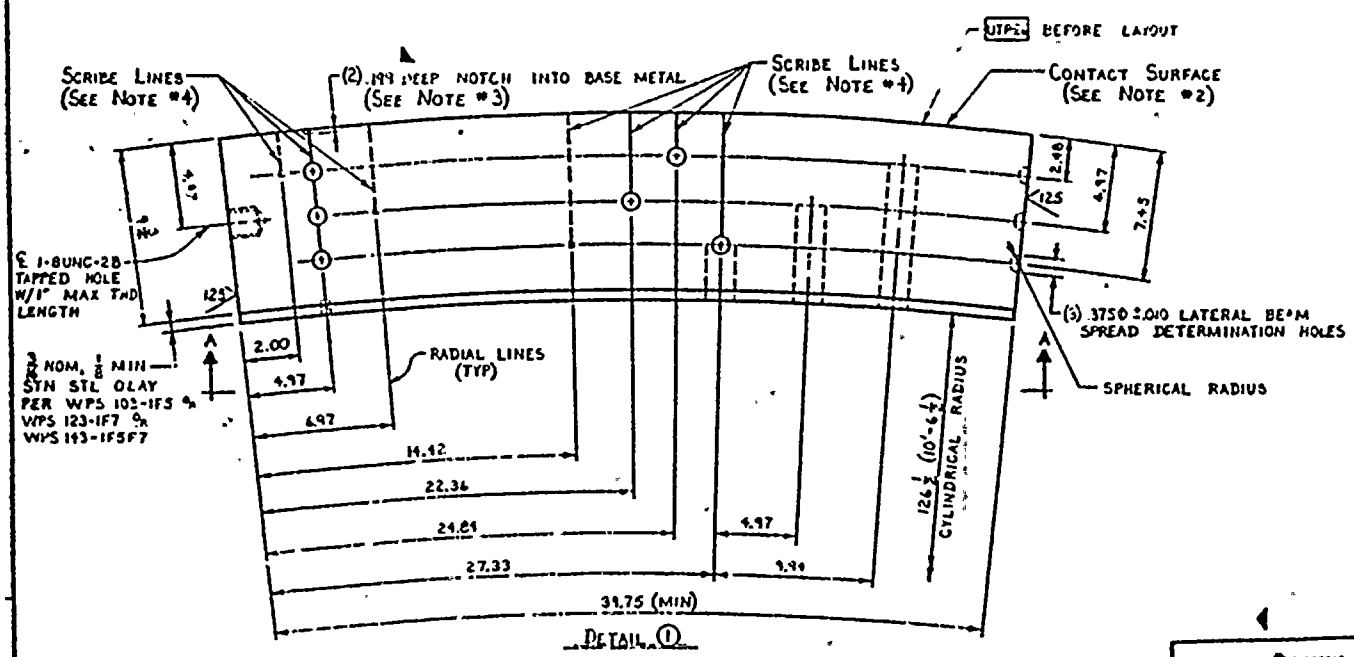
APPROVED FOR ISSUE G.E. ENGINEERING RELEASE PER ECO
E.E. Plehn 7-19-73
Issued by
Signed by [illegible]

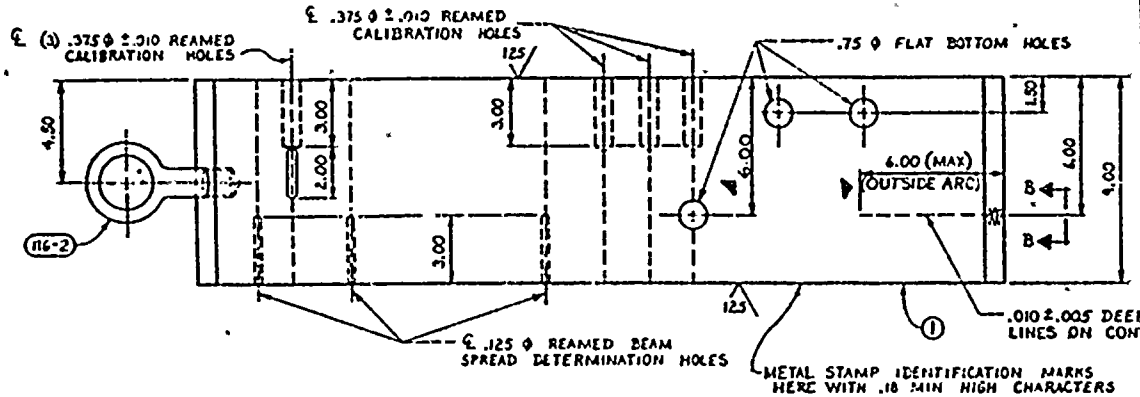
12	BOT HD RADIAL R
+	GEN NOTES & TOLS

WPPSS

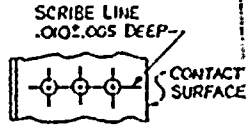
UT CALIBRATION STANDARD FOR BOTTOM HEAD RADIAL UT-118 PLATES

UTCB-206 | REV 0





MADE FROM: #1 SHELL RING
CONTRACT NO.: 72-2647
MATL SPEC: SA 533, GR B, CL 1
HEAT NO.:
BASE METAL THK = 9 3/4
T/4 = 2.48, T/2 = 4.97, 3T/4 = 7.45



VIEW B-B

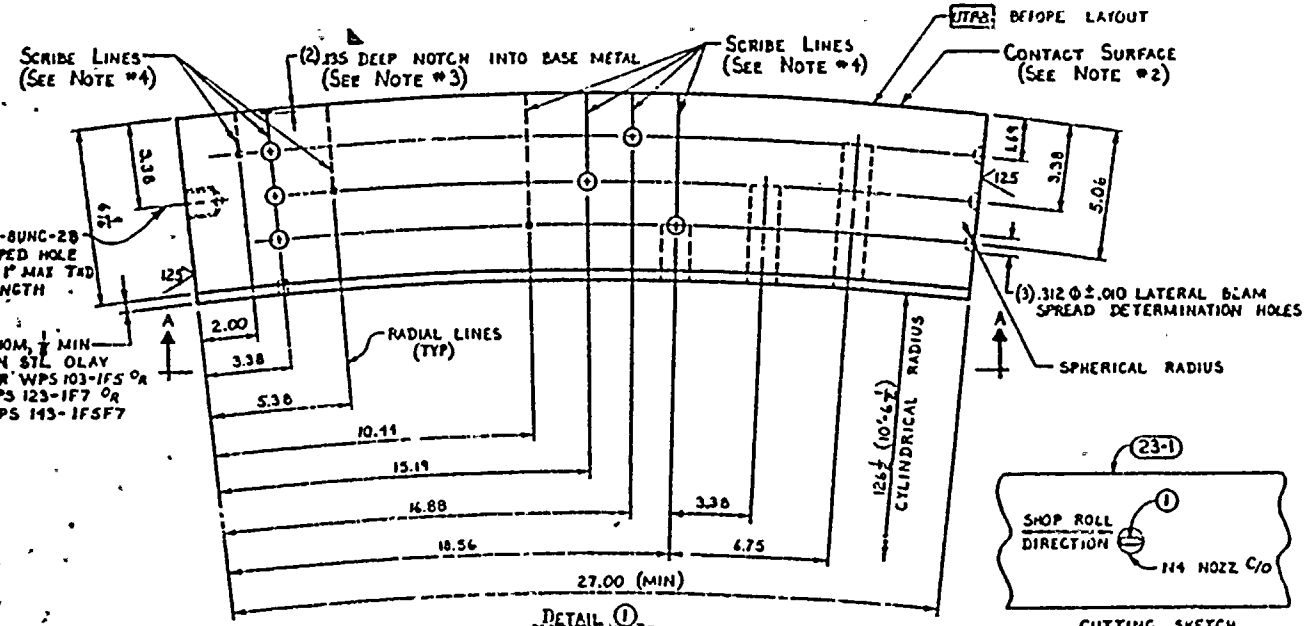
QTY	MARK	NO.	DESCRIPTION			SPEC
1	119-1		UT CALIBRATION BLOCK (SK X 9 3/4) (N/F 11" THK W/ HEAT GOOSE 1)			MSS1-D
1	116-2		PLAIN PATTERN EYE BOLT 11 3/4 ID X 3 1/4 OD X 2 1/2 GG SHANK W/ 1-8UNC 2A THD			MSS1-D

NOTES:
1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.
2. CONTACT SURFACE TO BE FREE OF RUST AND SCALE AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
3. NOTCHES TO BE MACHINED WITH .125 DIA FLAT END MILL.
4. SCRIBE .010 ± .005 DEEP LINES FROM ℄ OF HOLES RADIALLY TO AND THEN ACROSS THE CONTACT SURFACE.
5. ALL ARC DIMENSIONS ARE MEASURED ON INSIDE SURFACE, UNLESS OTHERWISE NOTED.
6. START BURN FOR NOZZLE CUTOUT IN AN AREA TO INSURE ENOUGH PLATE WITH PROPER ROLL FOR UT BLOCK.
ALL DECIMAL DIMENSIONS ARE ±.03 UNLESS OTHERWISE NOTED.
BLOCK TO BE POST WELD HEAT TREATED A MINIMUM OF TWO HOURS @ 1150°F. HEAT TREATMENT AFTER FORMING OR WELDING MAY BE USED TO MEET THIS REQUIREMENT.

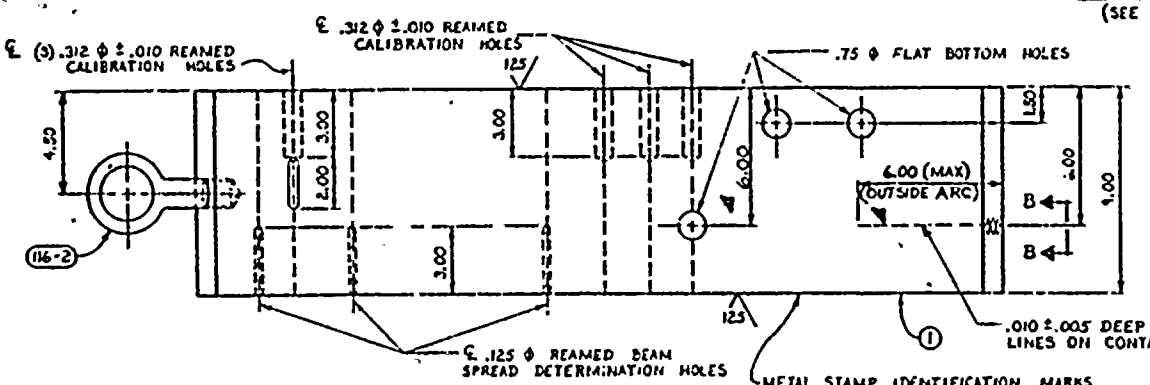
GENERAL ELECTRIC
Atomic Power Equipment Department
☐ Disapproved per comments
Review and resubmit for approval
☐ Approved with Comments
Review and resubmit IFI FINAL FORM
☐ Refer to EOS No. ____
☒ Approved. No further action required
☐ Approved. Submit certified sepia
☐ Certified by Seller and Approved by Buyer
Reviewed By: E.J. Wilson
Date: 6/12/74
VPF No. 3133-419-3

21	#1 SHELL RING
4	GEN NOTES & TOLS

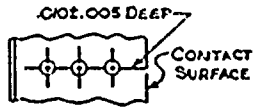
WPPSS.
UT CALIBRATION STANDARD FOR #1 SHELL RING
UT-119
UTCB-207 REV 0



CUTTING SKETCH (SEE NOTE #6)



VIEW A-A



VIEW B-B

PCS	MARK	MAT	DESCRIPTION	WEIGHT UNIT	WEIGHT TOTAL	REMARKS
1	120-1		UT CALIBRATION BLOCK (5" X 6 3/4) (M/F N4 NOZZLE C/O)			MISC PLATE SA 533 GR B CL 1
1	116-2		PLAIN PATTERN EYE BOLT 1 3/16 ID X 3 3/4 OD X 2 1/2 SQ SHANK W/ 1-8UNC 2A THD			CASTING SA 533 GR B CL 1

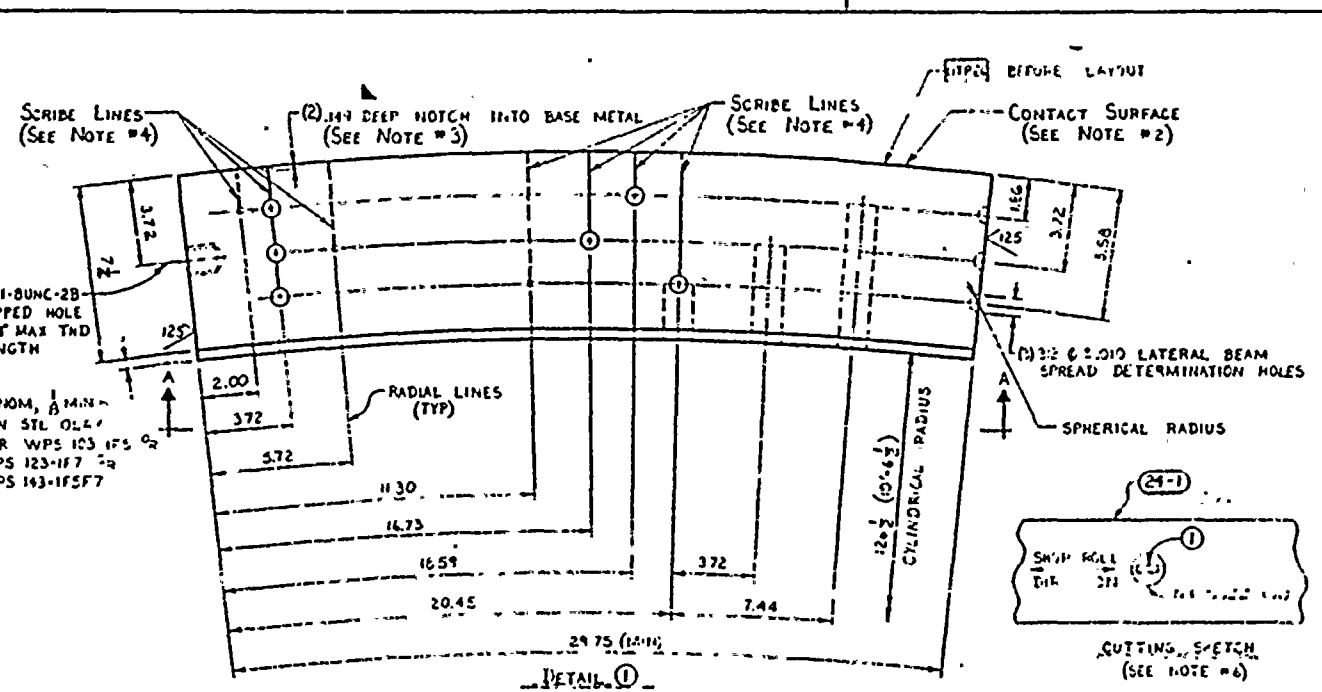
NOTES:
1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.
2. CONTACT SURFACE TO BE FREE OF RUST AND SCALE AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
3. NOTCHES TO BE MACHINED WITH .125 DIA FLAT END MILL.
4. SCRIBE .010 ±.005 DEEP LINES FROM ℄ OF HOLES RADIALLY TO AND THEN ACROSS THE CONTACT SURFACE.
5. ALL ARC DIMENSIONS ARE MEASURED ON INSIDE SURFACE, UNLESS OTHERWISE NOTED.
6. START BURN FOR NOZZLE CUTOUT IN AN AREA TO INSURE ENOUGH PLATE WITH PROPER ROLL FOR UT BLOCK.
7. ALL DECIMAL DIMENSIONS ARE ±.03 UNLESS OTHERWISE NOTED.
8. BLOCK TO BE POST WELD HEAT TREATED A MINIMUM OF TWO HOURS @ 1150° F. HEAT TREATMENT AFTER FORMING OR WELDING MAY BE USED TO MEET THIS REQUIREMENT.

GENERAL ELECTRIC
Atomic Power Equipment Department
☐ Disapproved per comments
Revise and resubmit for approval
☐ Approved with Comments
Revise and resubmit in FINAL FORM
☐ Refer to EDS No. _____
☐ Approved Subject to Letter dated _____
☐ Approved Subject to Letter dated _____
☐ Canceled by Seller and Approval by Buyer
Reviewed by: EJDL
Date: 3/16/72
VPF No 3133-420-3

APPROVED FOR ISSUE BY GENERAL ELECTRIC
CC Fluke 3/16/72
APPROVED BY PSE&G

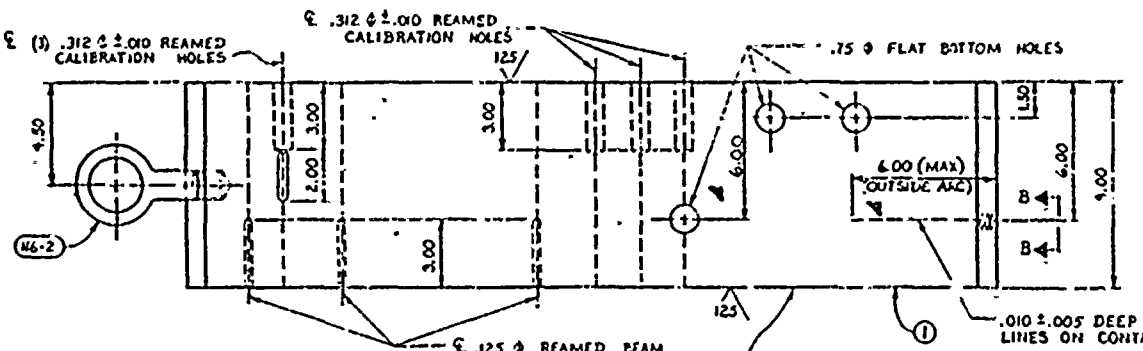
23	#3 SHELL RING
4	GEN NOTES & TOLS

WPPSS
UT CALIBRATION STANDARD FOR #2 & #3 SHELL RINGS
UT-120
UTCB-208 | REV 0

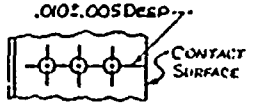


NO.	MARK	QTY	DESCRIPTION	WEIGHT UNIT	WEIGHT TOTAL
1	121-1		UT CALIBRATION PLATE (SEE NOTE #1)		
2	116-2		PLAIN PATTERN EYE BOLT 1 1/4-7UNC ID X 3 3/4 OD X 2 1/2 SG SHANK W/ 1-8UNC 2A THD		

NOTES:
1. MATERIAL SHALL BE FREE OF LAMINAR INDICATIONS THAT WILL AFFECT ANGLE BEAM CALIBRATION.
2. CONTACT SURFACE TO BE FREE OF RUST AND SCALE AND ANY ROUGHNESS THAT WILL INTERFERE WITH UT SEARCH UNIT MOVEMENT. SAND BLAST FINISH ACCEPTABLE. (GRIT BLAST PROHIBITED)
3. NOTCHES TO BE MACHINED WITH .125 DIA FLAT END MILL.
4. SCRIBE .010 ± .005 DEEP LINES FROM ℄ OF HOLES RADIALLY TO AND THEN ACROSS THE CONTACT SURFACE.
5. ALL ARC DIMENSIONS ARE MEASURED ON INSIDE SURFACE, UNLESS OTHERWISE NOTED.
6. START BURN FOR NOZZLE CUTOUT IN AN FH AREA TO INSURE ENOUGH PLATE WITH PROPER ROLL FOR UT BLOCK.
7. ALL DECIMAL DIMENSIONS ARE ± .03 UNLESS OTHERWISE NOTED.
8. BLOCK TO BE POST WELD HEAT TREATED A MINIMUM OF TWO HOURS @ 1150° F. HEAT TREATMENT AFTER FORMING OR WELDING MAY BE USED TO MEET THIS REQUIREMENT.



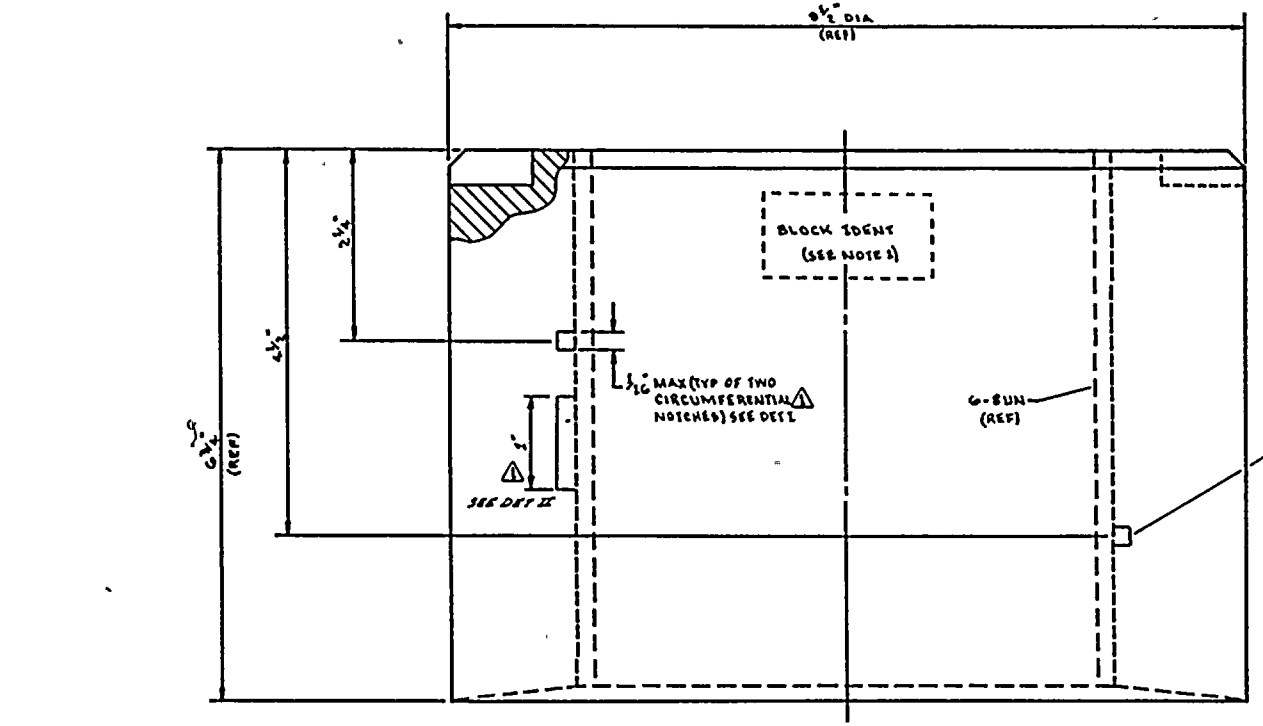
MADE FROM #4 SHELL RING
CONTRACT NO.: 72-2647
MATL SPEC: SA 533 GR B CL 1
HEAT NO.:
BASE METAL THK = 7⅛
¼ = 1.86 , ½ = 3.72 , ¾ = 5.58

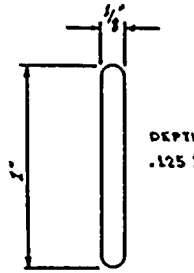


GENERAL ELECTRIC
Nuclear Power Equipment Department
☐ Drawing and spec comments Review and resolve for Approval
☐ Approved with C per notes Review and resolve in FINAL FORM
☐ Refer to EDS for _____
☒ Approved No further action req'd
☐ Approved Submit certified copy
☐ Certified by Seller and Approved by Buyer
Reviewed by: E.H. Pleb
Date: 4-12-74
SPS No. 3133-421-3

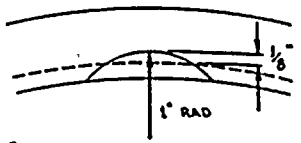
24	#4 SHELL RING
4	GEN NOTES & TOLS

WPPSS
UT CALIBRATION STANDARD FOR #4 SHELL RING
UT-121
UTCB-209 REV 0





DETAIL II



1/8" DEEP SAW CUT (MEASURED FROM THREAD ROOT) WITH 2" DIAMETER CIRCULAR BLADE OR EQUIVALENT.

DETAIL I

REACTOR VESSEL NUT UT CALIBRATION BLOCK UT-132

(MAKE FROM SPARE NUT)

REFERENCES

1. CBI NUCLEAR CO. 205 AE 023, SHEET 86, REV 5

NOTES:

1. STAMP BLOCK WITH 1/8" HIGH STEEL STAMP WITH CAL BLOCK NO "UT-132.
2. 1/32 INCH MACHINING TOLERANCES ARE APPLICABLE UNLESS OTHERWISE NOTED.
3. NOTCHES ARE TO BE MACHINED 120° APART.

DANIEL W. PORTER STATE OF WASHINGTON 10304 REGISTERED PROFESSIONAL ENGINEER

Daniel W. Porter

THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER NC HALLAS

DRAWN K. Mc ANDREW

DATE 7-12-78

WNP-2
RPV NUT
UT CALIBRATION BLOCK

DWG NO UTCB-211 REV 1

NO	DATE	REVISION	BY	CHKD	APPVD
1	7-19-78	REVISED NOTCHES AS NOTED.	K.M.A	[illegible]	[illegible]
0	7-19-78	ISSUED FOR CONSTRUCTION	K. Mc A	[illegible]	[illegible]

11.2 PIPING SYSTEM STANDARDS

The design drawings on the following pages illustrate the ultrasonic calibration blocks which will be used to perform ultrasonic examinations of the nuclear Class 1 and 2 piping systems. Table 11-2 lists those UT blocks, including the block identification number which will be used exclusively whenever referencing the calibration block on data sheets or other records, and the corresponding design drawing number. The block identification number is the same number referenced from the Program Plan and Schedule Tables and the Weld and Component Identification Diagrams found in Section 8.0, "WELD ID DIAGRAMS".

The following notes apply to Table 11-2:

NOTE 1: This block is for use on 20" RHR(2)-4S which is of material specification SA-312 rather than SA-358. This is acceptable based on the acoustic similarity of the two materials.

NOTE 2: For these piping systems, the UT calibration block is for use on the schedule 100 elbows only.

NOTE 3: This block is for use on 12" RHR(1)-4S which is of material specification SA-312 rather than SA-358. This is acceptable based on the acoustic similarity of the two materials.

NOTE 4: See detail for special 5" thermal sleeve on RFW-101-1 in Section 8.0, "WELD ID DIAGRAMS".

NOTE 5: See detail for flued head fitting on MS-101-3. This block is intended for use along with pipe block UT-3.

TABLE 11-2

RPV ULTRASONIC CALIBRATION BLOCKS

Sheet 1 of 4
Date 1/8/79
Revision 0

See Section 11.2 for notes

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-1	UTCB-220	30" MS(1)-4	CS	30"	1.250"	SA 155 KCF-70
UT-2	UTCB-220	28" MS(1)-4	CS	28"	1.420"	SA 155 KCF-70
UT-3	UTCB-220	26" MS(1)-4	CS	26"	1.125"	SA 155 KCF-70
UT-4	UTCB-220	26" MS(1)-4	CS	26"	1.125"	SA-106 Gr. B
UT-5	UTCB-220	24" RFW(1)-4	CS	24"	1.812"	SA-106 Gr. B
UT-6	UTCB-220	24" MS(1)-4	CS	24"	1.218"	SA-106 Gr. B
UT-7	UTCB-220	24" RRC(1)-4S	SS	24"	1.140"	SA-358 Gr. 304
		24" RRC(2)-4S				
UT-8	NOT USED					
UT-9	UTCB-220	20" RRC(6)-4S	SS	20"	1.031"	SA-358 Gr. 304 (NOTE 1)
		20" RHR(2)-4S				
UT-10	UTCB-220	20" RHR(2)-4	CS	20"	1.031"	SA-106 Gr. B
UT-11	UTCB-220	18" RFW(1)-4	CS	18"	1.375"	SA-106 Gr. B
UT-12	UTCB-220	18" MS(1)-4	CS	18"	0.938"	SA-106 Gr. B
UT-13	UTCB-220	16" RRC(1)-4S	SS	16"	0.758"	SA-358 Gr. 304

TABLE 11-2

PIPING SYSTEM ULTRASONIC CALIBRATION BLOCKS

Sheet 2 of 4
Date 7/27/79
Revision 1

See Section 11.2 for Notes

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-14	UTCB-221	14" RHR(1)-4	CS	14"	0.750"	SA-106 Gr. B
UT-15	UTCB-221	12" RFW(1)-4	CS	12"	1.000"	SA-106 Gr. B
UT-16	UTCB-221	12" RHR(1)-4	CS	12"	0.844"	SA-106 Gr. B
		12" HPCS(1)-4				(NOTE 2)
		12" LPCS(1)-4				(NOTE 2)
UT-17	UTCB-221	12" HPCS(1)-4	CS	12"	0.688"	SA-106 Gr. B
		12" LPCS(1)-4				
UT-18	NOT USED					
UT-19	UTCB-221	12" RRC(7)-4S	SS	12"	0.688"	SA-358 Gr. 304 (NOTE 3)
		12" RHR(1)-4S				
		12" RRC(1)-4S				
UT-20	NOT USED					
UT-21	UTCB-221	10" RCIC(12)-4	CS	10"	0.719"	SA-106 Gr. B
UT-22	UTCB-221	10" HPCS(1)-4	CS	10"	0.594"	SA-106 Gr. B
		10" RCIC(12)-4				
		10" LPCS(1)-4				
UT-23	UTCB-221	10" RCIC(12)-4	CS	10"	0.844"	SA-106 Gr. B

TABLE 11-2

PIPING SYSTEM ULTRASONIC CALIBRATION BLOCKS

Date 1/8/79

Revision 0

See Section 11.2 for Notes

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
UT-24	UTCB-221	8" MS(1)-4	CS	8"	0.906"	SA-106 Br. B
UT-25	UTCB-221	8" RCIC(12)-4	CS	8"	0.594"	SA-106 Gr. B
		8" RHR(20)-4				
UT-26	UTCB-221	8" RRC(1)-4S	SS	8"	0.500"	SA-376 Tp. 304
UT-27	UTCB-221	6" RCIC(1)-4	CS	6"	0.562"	SA-106 Gr. B
		6" RCIC(6)-4				
UT-28	UTCB-221	6" RCIC(1)-4	CS	6"	0.432"	SA-106 Gr. B
		6" RHR(10)-4				
		6" RWCU(3)-4				
		6" RWCU(4)-4				
		6" RFW(11)-4				
UT-29	UTCB-221	4" RRC(4)-4S	SS	4"	0.337"	SA 312 Tp. 304
UT-30	UTCB-221	4" RCIC(10)-4	CS	4"	0.337"	SA-106 Gr. B
		4" RCIC(13)-4				
		4" RWCU(3)-4				
		4" RWCU(4)				
		4" RRC(51)-4				
		4" HPCS(1)-4				
		4" LPCS(1)-4				

TABLE 11-2

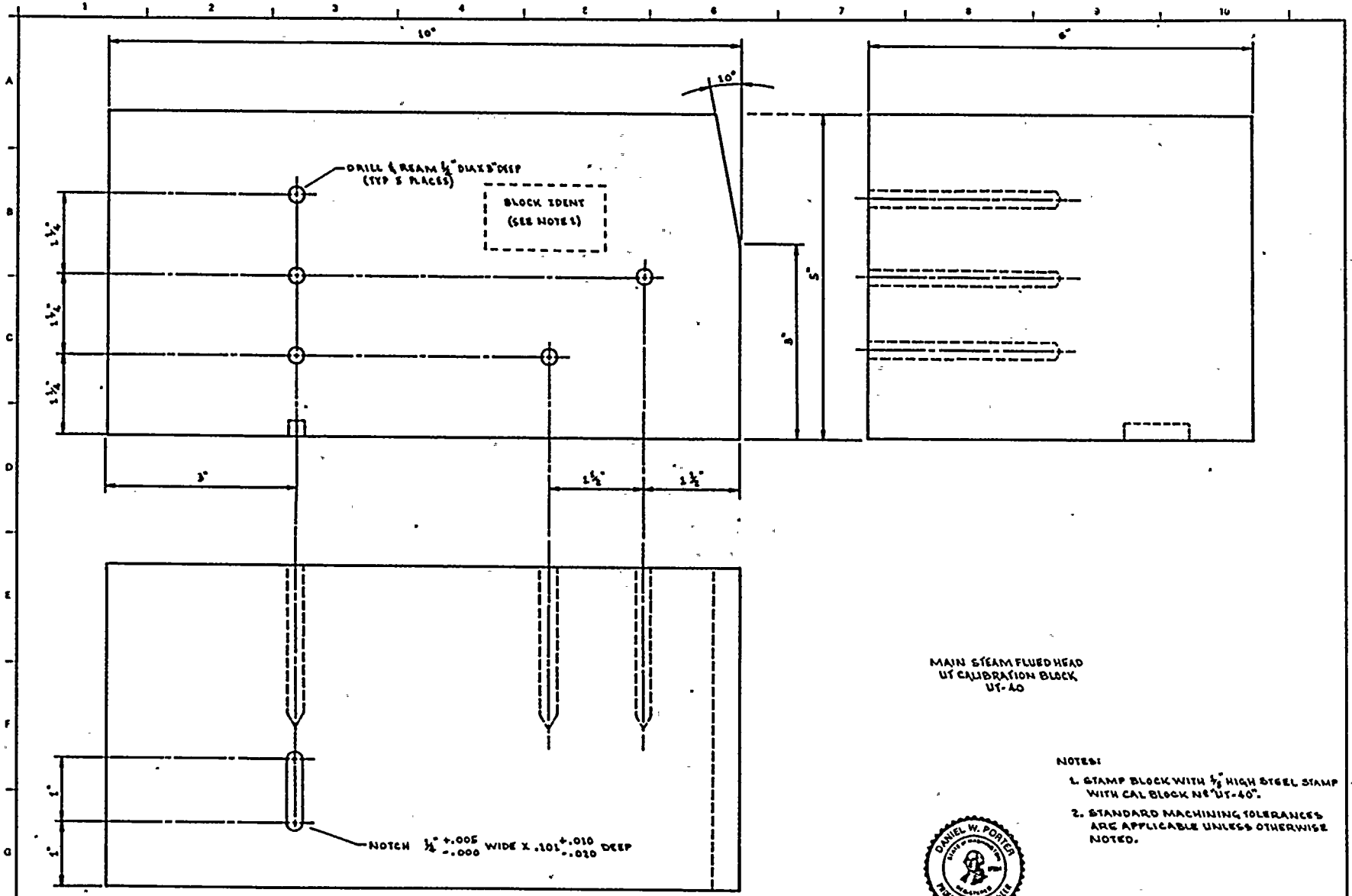
PIPING SYSTEM ULTRASONIC CALIBRATION BLOCKS

Date 1/8/79

Revision 0

See Section 11.2 for Notes

BLOCK ID NO.	DETAIL DWG. NO.	APPLICABLE TO	MATERIAL	NOMINAL DIAMETER	NOMINAL THICKNESS	MATERIAL SPECIFICATION
		4" MS(12)-4				
		4" RFW(11)-4				
UT-31	UTCB-221	4" RRC(8)-4S	SS	4"	0.237"	SA-376 Tp. 304
UT-32	UTCB-221	5" RFW(11)-4	CS	5"	0.500"	SA-106 Gr. B (NOTE 4)
UT-33	UTCB-220	24" RFW(1)-4	CS	24"	2.343"	SA-106 Gr. B
UT-40	UTCB-222	MS FLUED HEAD	CS	FLAT	5.000"	SA-105 (NOTE 5)
UT-41	UTCB-223	REACTOR RECIRC. PUMP STUDS AND RRC VALVES 60 A & B BOLTING	CS	3¼"	N/A	SA-193 Gr. 7
UT-42	UTCB-LATER	RHR HEAT EXCHANGER SHELL TO HEAD AND SHELL TO FLANGE WELDS	CS	FLAT	1.00"	SA-516 Gr. 70
UT-43	UTCB-LATER	RHR HEAT EXCHANGER NOZZLE TO SHELL WELDS (N3, N4)	CS	FLAT	1.00"	SA-516 Gr. 70



MAIN STEAM FLUED HEAD
UT CALIBRATION BLOCK
UT-40

NOTES:

1. STAMP BLOCK WITH ⅛" HIGH STEEL STAMP WITH CAL BLOCK NO "UT-40".
2. STANDARD MACHINING TOLERANCES ARE APPLICABLE UNLESS OTHERWISE NOTED.

DANIEL W. PORTER
STATE OF WASHINGTON
No. 11998
REGISTERED PROFESSIONAL ENGINEER

Daniel W. Porter

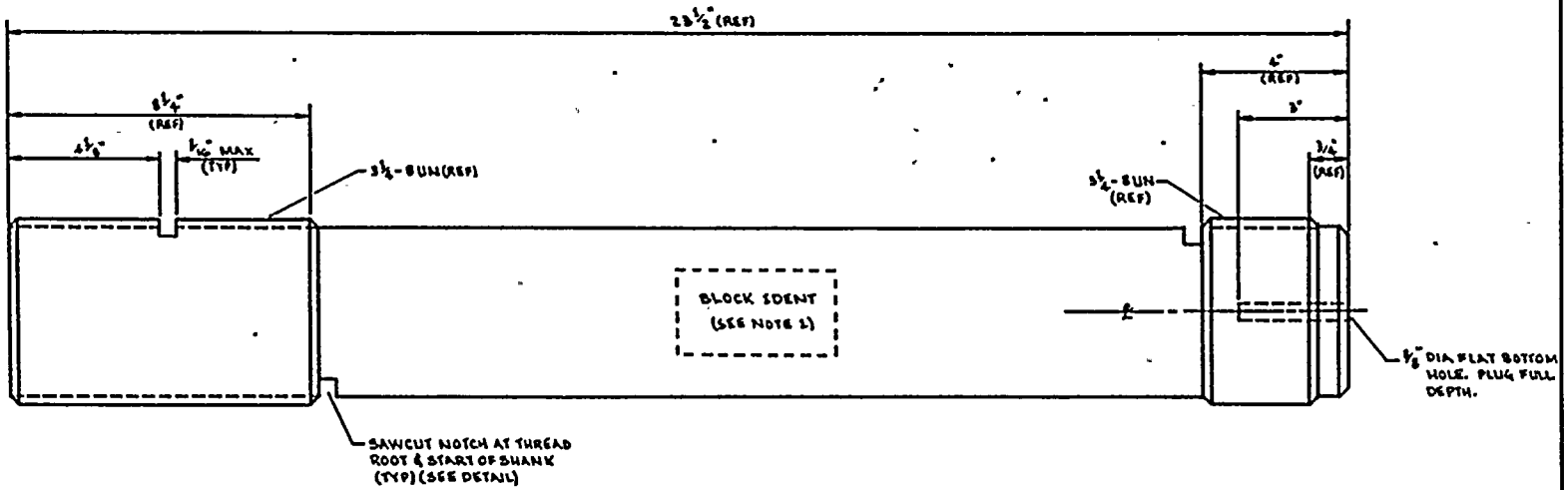
THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER N.C. HALLAS
DRAWN K. McANDREW
DATE 7-11-78

WNP-2
UT CALIBRATION BLOCK
DWG NO LTCB-222
REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	7-11-78	ISSUED FOR CONSTRUCTION	K.M.A.	[illegible]	[illegible]



DETAIL

RECIRC PUMP STUD
UT CALIBRATION BLOCK
UT-41
(MAKE FROM SPARE STUD)

NOTES:

1. STAMP STUD SHANK WITH ⅛" HIGH STEEL STAMP WITH CAL BLOCK NO. "UT-41".
2. STANDARD MACHINING TOLERANCES ARE APPLICABLE UNLESS OTHERWISE NOTED

DANIEL W. PORTER
STATE OF WASHINGTON
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

ENGINEER N.C. HALLAS

DRAWN K. McANDREW

WNP- 2

UT CALIBRATION BLOCK

DATE 7-11-78

DWG NO UTCB-223

REV 0

NO	DATE	REVISION	BY	CHKD	APPVD
0	7-13-78	ISSUED FOR CONSTRUCTION	KMcA	[illegible]	[illegible]

12.0--MANAGEMENT PLAN

12.1 INTRODUCTION

This management plan describes the interfaces between the various persons involved in performance of the PSI examinations. These interfaces are described for both Supply System and PSI Contractor (Lambert-MacGill-Thomas (LMT)) personnel. The LMT Management Plan, QA-26, which describes the LMT site and home office organization, and the Supply System/LMT interfaces, is incorporated herein by reference, with the actual document located at the end of this section.

This management plan is divided into sections based on activities as follows:

12.2	Site Organization
12.3	Planning and Scheduling
12.4	PSI Program Plan Revisions
12.5	Field Support Services
12.6	Reporting and Disposition of Indications
12.7	Technical Surveillance

Each of the above listed sections consists of a description of the responsibilities and interfaces for that activity, and a corresponding organization chart to illustrate the lines of responsibility and flow of information.

12.2 Site Organization

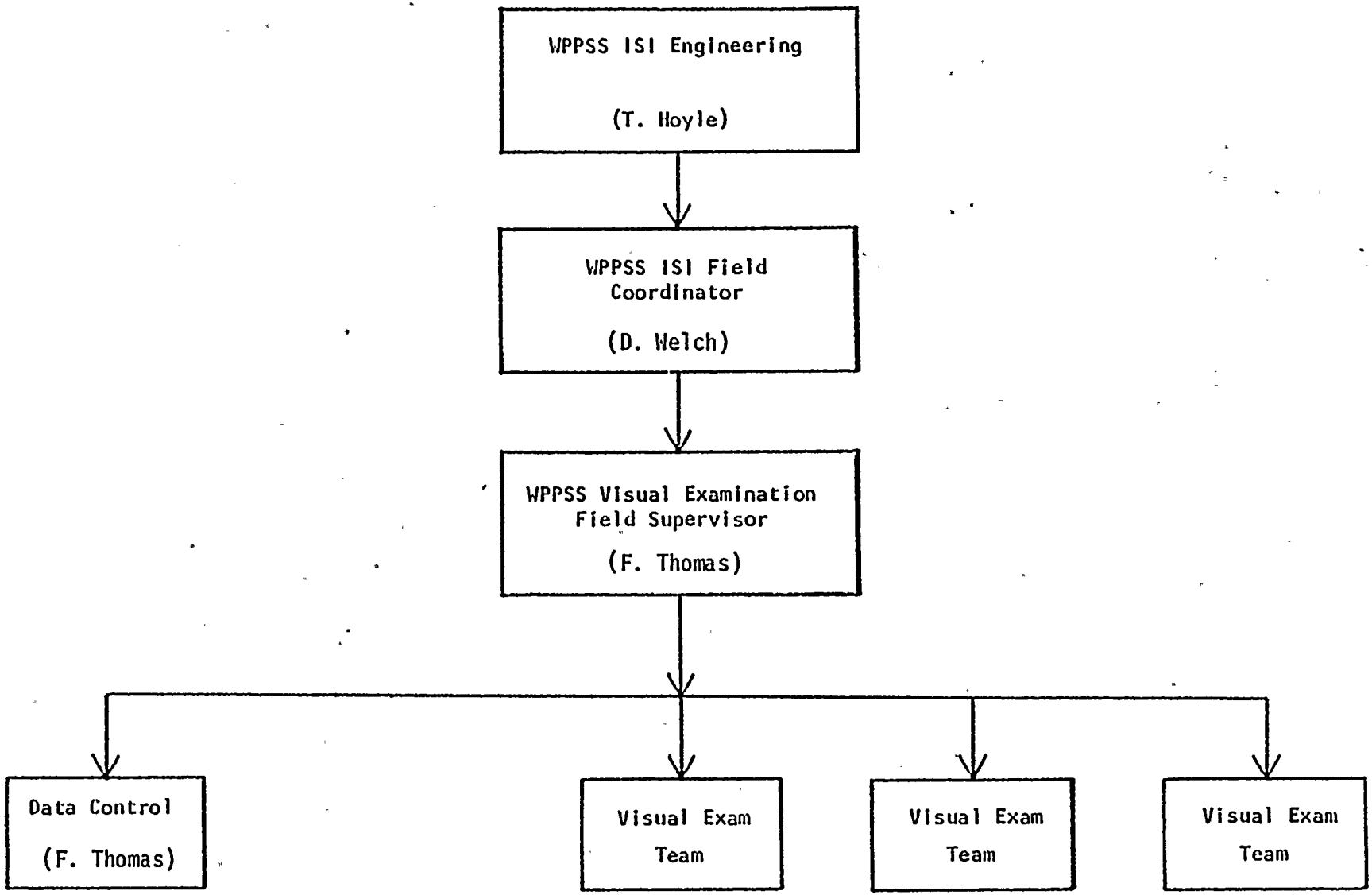
The LMT site organization is described in the LMT Management Plan, Section X, Page 5. This organization is applicable to the volumetric and surface examinations.

The Supply System site organization, applicable to the visual examination program (see Section 9.0, "Visual Program") is illustrated on Figure 12.2-1 below.

The WPPSS ISI Engineer is responsible for the overall completion of the Preservice Inspections as designated in Engineering Division Procedure EDP-9.3, "Conduct of Preservice Inspections" (see Section 10.0, "Procedures"). The WPPSS ISI Field Coordinator is, in turn, responsible for the implementation of the PSI Program Plan, i.e., for coordinating the field examination activities. The WPPSS ISI Field Coordinator is the primary contact for the WPPSS Visual Examination Field Supervisor and the LMT Site Supervisor, and provides day-to-day technical direction to those parties. Each of those supervisors, in turn, directs the activities of the examination teams and the data control personnel.

Figu ..2-1

VISUAL EXAMINATIONS
WPPSS SITE ORGANIZATION



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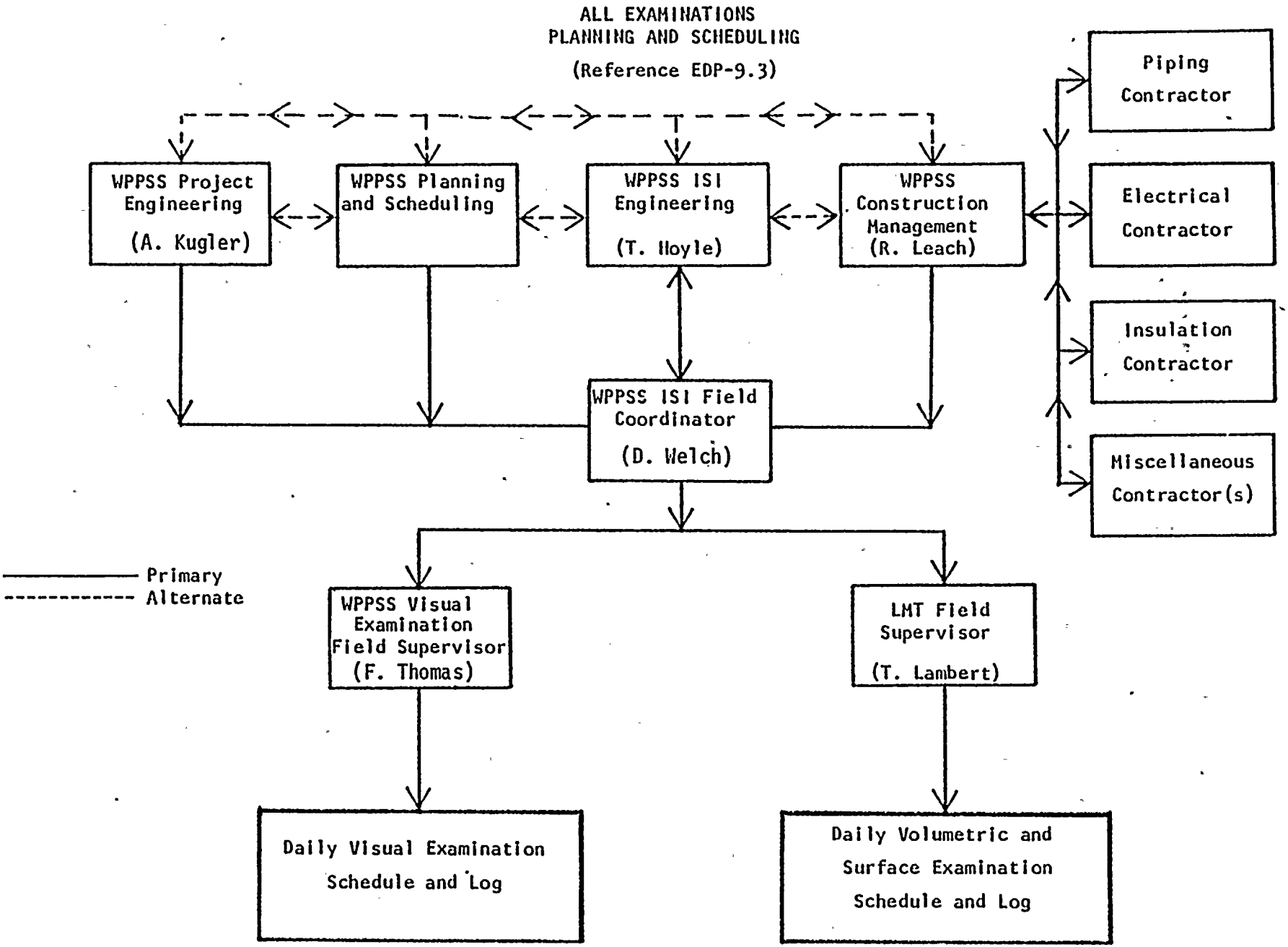
12.3 Planning and Scheduling

The planning and scheduling of the PSI examinations will be conducted as follows. The organization of personnel involved in planning and scheduling is illustrated on Figure 12.3-1 below. The LMT Field Supervisor and the WPPSS Visual Examination Field Supervisor are directly responsible for developing, maintaining, and administering their respective Examination Schedule and Log. Their primary source of scheduling information is the WPPSS ISI Field Coordinator. The WPPSS ISI Field Coordinator receives input from the WPPSS Project Engineer, WPPSS Planning and Scheduling, the WPPSS ISI Engineering, and WPPSS Construction Management. He works with the respective Field Supervisors to compile this input onto a completed schedule, and continually provides input to allow schedule revisions responsive to project construction schedules and other project input. Weekly scheduling meetings, with greater or lesser frequencies as needed, will be the primary source of input to the ISI Field Coordinator and Field Supervisor.

A secondary or alternative coordination activity is shown between WPPSS ISI Engineering and the Project Engineering, Planning and Scheduling, and Construction Management organizations. This is intended to provide coordination assistance by the ISI Engineer to the ISI Field Coordinator on an as-needed basis.

The ISI Engineer will take corrective action if and when any Project schedule commitments appear to be in jeopardy.

Figu. .3-1



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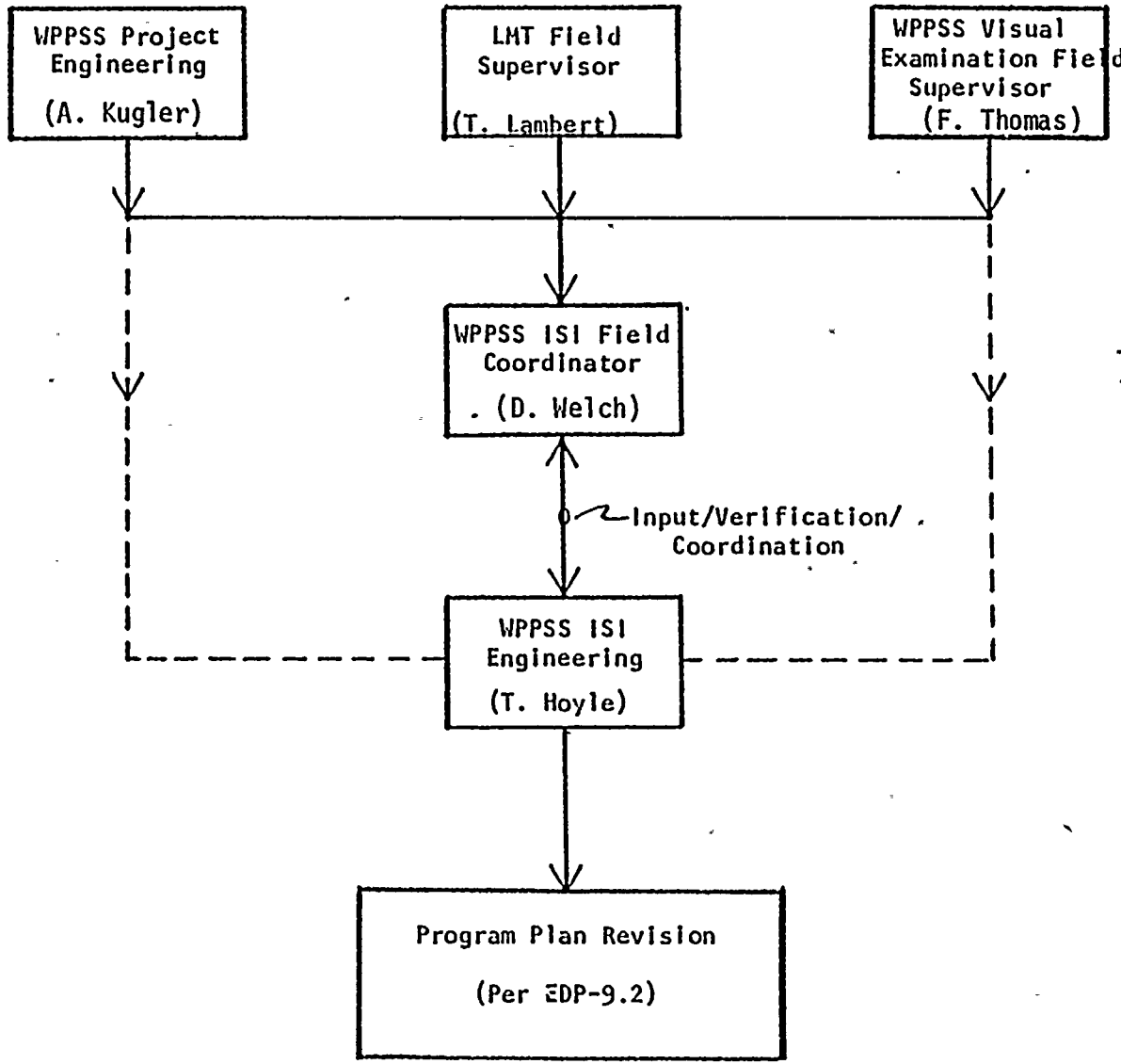
12.4 PSI Program Plan Revisions

WPPSS ISI Engineering is responsible for the maintenance of the PSI Program Plan, and will make changes to the plan as authorized in Engineering Division Procedure EDP-9.2, "Preparation of PSI Plan". The primary source of notification of need for Program Plan revision is the WPPSS ISI Field Coordinator, who in turn receives input from WPPSS Project Engineering, the LMT Field Supervisor, or the WPPSS Visual Examination Field Supervisor. Alternative examination techniques or methods may also be proposed by the ISI Field Coordinator. The responsible ISI Engineer will verify need for any Program Plan change and coordinate the actual change with the ISI Field Coordinator. Any unexaminable areas discovered in the above process will be documented in the PSI Final Report by the ISI Engineer with appropriate justification which will constitute the basis for request for relief from code requirements as required by the NRC. Figure 12.4-1 illustrates the above described interfaces.

Figure 12.4-1

ALL EXAMINATIONS
PSI PROGRAM PLAN REVISIONS



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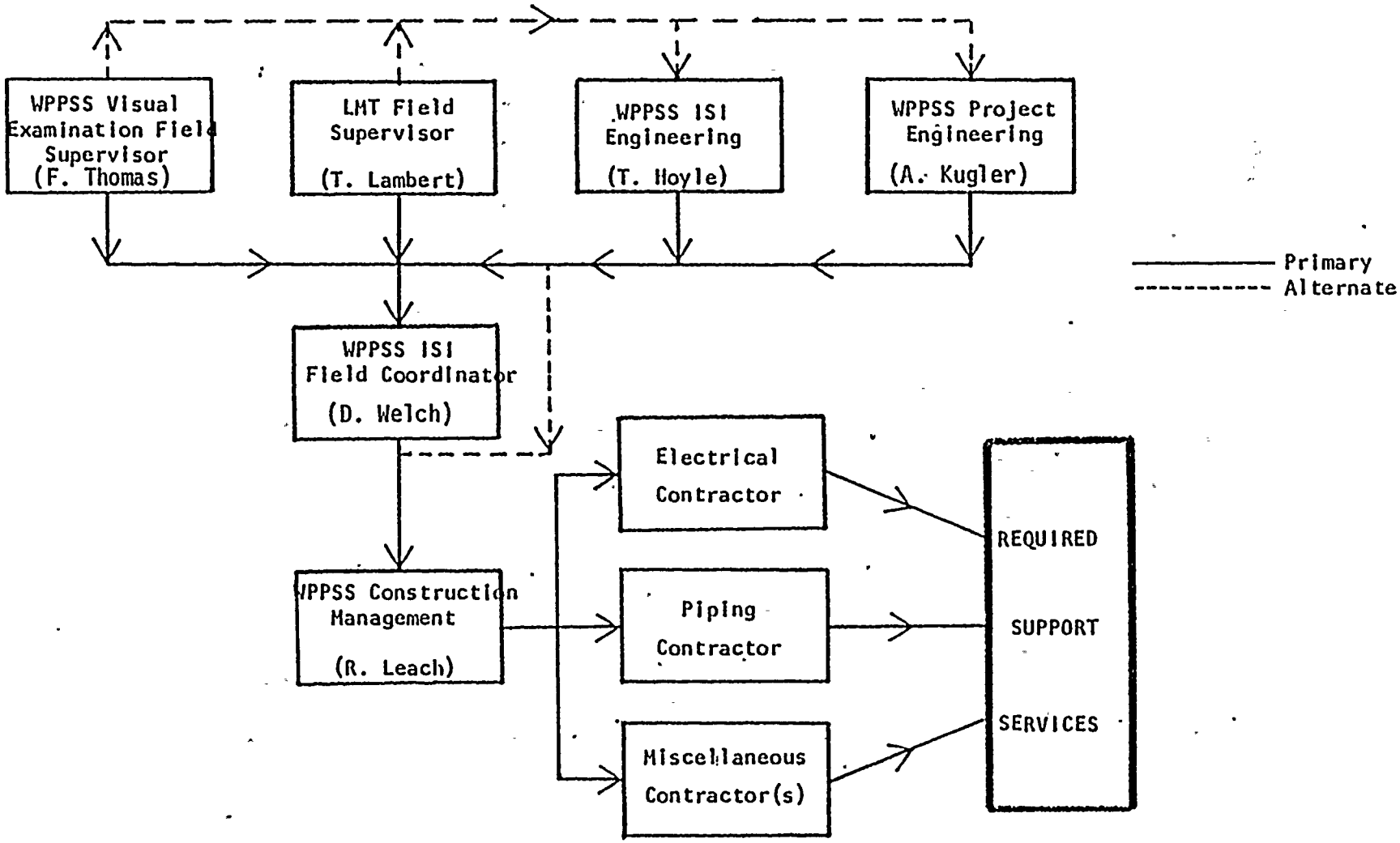
12.5 Field Support Services

The WPPSS Construction Management organization is responsible for arranging field support services through the individual field contractors as shown on Figure 12.5-1. The primary source of requests for support services comes from the WPPSS ISI Field Coordinator, who in turn receives the requests from the WPPSS Visual Examination Field Supervisor and the LMT Field Supervisor. As an alternative, the Field Supervisors may notify the WPPSS ISI Engineer or Project Engineer of their need, and they will in turn notify the Field Coordinator. In the event the Field Coordinator is unavailable, the WPPSS Construction Management may be notified directly, provided the Field Coordinator is notified as soon as possible of the request.

Field support services include such things as scaffolding, electric power hookup, water, compressed air or nitrogen, ladders, support or insulation removal, cosmetic grinding, etc.

Figure 12.5-1

ALL EXAMINATIONS
FIELD SUPPORT SERVICES



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12.6 Reporting and Disposition of Indications

The LMT Field Supervisor and the WPPSS Visual Examination Field Supervisor are responsible for reporting all indications to the WPPSS ISI Field Coordinator in accordance with their respective NDE procedures, and in the case of LMT, their contract with WPPSS. The Field Coordinator will then verify the existence and status (reportable/not reportable) of the indication, and report the indication to the WPPSS ISI Engineer as required. The Field Coordinator will notify ISI Engineering of any significant non-geometric indication such that ISI Engineering will have the opportunity to witness the verification of the existence and status of the indication. The WPPSS ISI Field Coordinator will keep a continuous written inventory of reportable indications, and will forward copies of the inventory sheets to the ISI Engineer on a weekly basis during the conduct of Preservice Inspections.

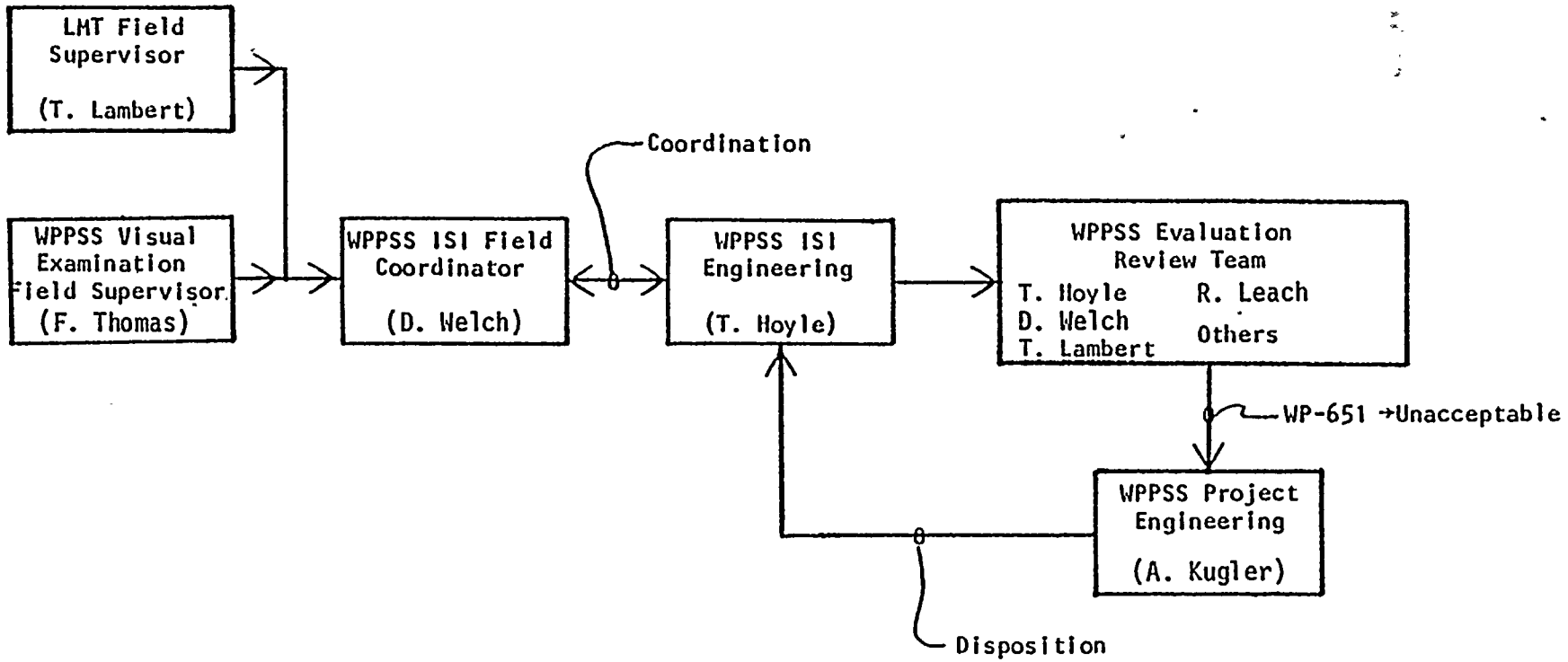
Any reported indication which cannot be routinely dispositioned by WPPSS ISI Engineering or the ISI Field Coordinator, will be presented by the ISI Engineer to the WPPSS Evaluation Review Team for action. Disposition of all indications reported to the Evaluation Review Team will be documented on Evaluation Review Team Reports per EDP-9.3, "Conduct of Preservice Examinations".

NOTE: A portion of the preservice examinations of piping systems will be performed prior to final release of those systems by the installation contractor to the owner. During that time period, unacceptable surface conditions which are likely to be easily removed by cosmetic grinding will not be subject to Evaluation Review Team scrutiny.

The ISI Field Coordinator will resolve unacceptable surface indications detected by liquid penetrant, magnetic particle, or visual examination methods by giving Construction Management a detailed description of the unacceptable condition. Construction Management transmits this information to the appropriate installation contractor who will repair or rework the component or weld as necessary. If it is deemed appropriate to do so, a non-conformance report (NCR) will be initiated by Construction Management using their established NCR system.

Figure 12.6-1

ALL EXAMINATIONS
REPORTING AND DISPOSITION OF INDICATIONS
(Reference EDP-9.3)



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12.7 Technical Surveillance

The WPPSS ISI Engineering is responsible for technical surveillance of the overall PSI examination effort to ensure compliance with the requirements of the PSI Program Plan. Technical surveillance of the volumetric and surface NDE activities on a day-to-day basis will be accomplished by the ISI Field Coordinator with the aid of a Technical Surveillance Team as required, depending on the number of examination teams present on-site and other such factors. The Technical Surveillance Team will be under the direction of the Field Coordinator, and may consist of personnel from either the ISI Engineering or Generation Services organizations. Figure 12.7-1 illustrates the above interfaces for volumetric and surface examinations performed by LMT, and Figure 12.7-2 for the visual examinations performed by WPPSS.

The Technical Surveillance Personnel will complete Daily Log Sheets to document their surveillance. Figure 12.7-3 is a typical Daily Log Sheet. The Log Sheets will be returned to the Field Coordinator, who will maintain them in a chronological file on a system basis. The Field Coordinator is responsible for assuring that any follow-up action noted on the log sheets is taken, and will confirm that action by signing and dating the log sheet.

Figures 12.7-1 and 12.7-2 also illustrate the technical surveillance performed by the WPPSS Authorized Nuclear Inspector.

Figure 12.7-1

VOLUMETRIC AND SURFACE EXAMINATIONS
TECHNICAL SURVEILLANCE

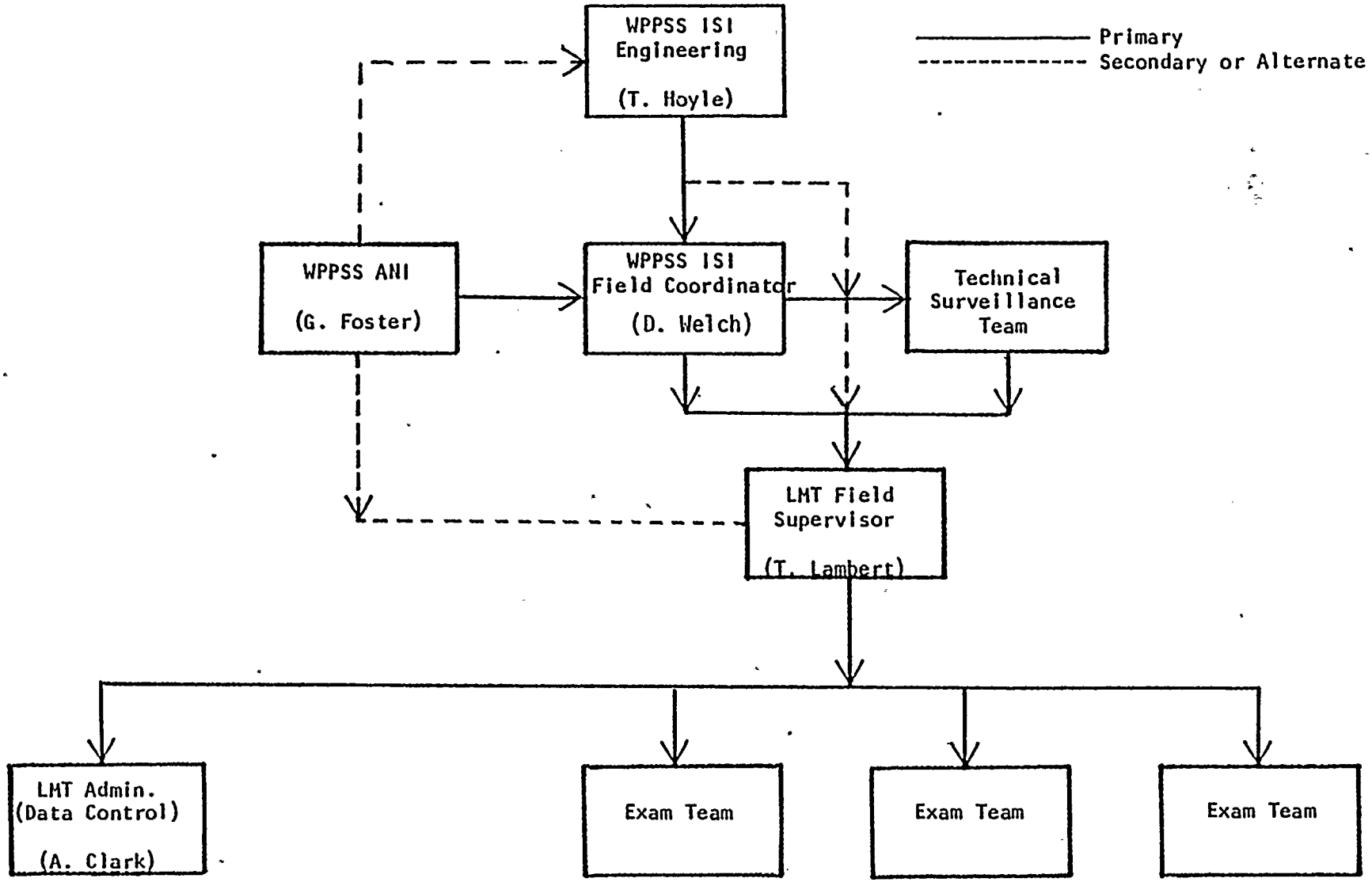

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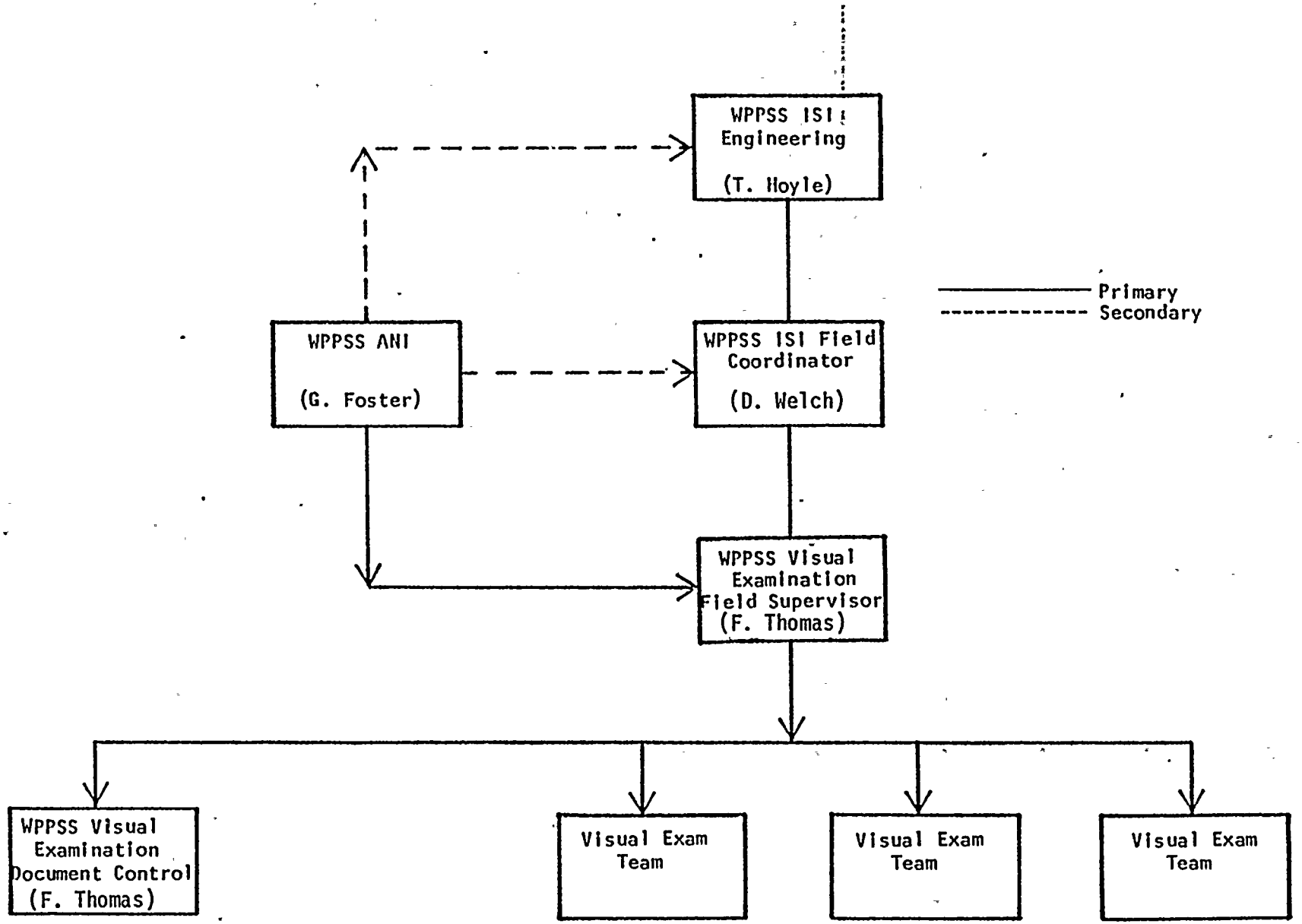
Figure 12.7-2

VISUAL EXAMINATIONS
TECHNICAL SURVEILLANCE



14.0--EXAMINATION EQUIPMENT

The remote ultrasonic examination equipment to be used in completing the preservice examinations of the reactor pressure vessel consists primarily of two categories of equipment: 1) permanently installed pole and bottom head area, tracks and temporary nozzle tracks; and 2) remote weld scanners. This section is divided into those two categories accordingly.

14.1 RPV POLE, BOTTOM HEAD, AND NOZZLE TRACKS

The Supply System has installed permanent pole and bottom head tracks at WNP-2. Those tracks are mounted on the metallic reflective insulation in the annulus between the RPV and the sacrificial shield wall on the skirt insulation beneath the RPV (located on the skirt inside surface), respectively. Drawings showing details of the track designs and locations are included in Appendix 14A to this section. Generally, the remote examination devices described in 14.2 below are loaded onto the pole tracks through sacrificial shield nozzle penetrations using temporary track extensions or through the skirt openings in the shield wall and RPV skirt for the bottom head tracks. The lower pole tracks in the skirt area are loaded from the skirt annulus area after removing the insulation at the bottom of the annulus. Hinged swing-out sacrificial shield doors provide access through the nozzle penetrations.

The RPV nozzle scanning tracks are removable roller chain tracks with leaf spring tensioners between the pipes and nozzles and the track itself. The tracks are designed to be quickly installed and removed to minimize residence time in a radiation environment during inservice inspections. Nozzle track removal is required during plant service to allow clearance for closure of the sacrificial shield doors. The nozzle-to-shell welds, nozzle inner radii, and nozzle safe end and extension welds are all accessible to the nozzle examination devices using these tracks. A procedure for ensuring repeatability of location of these tracks on subsequent installation is included in the mechanized equipment procedures in Section 10.0, "PROCEDURES".

14.2 REMOTE WELD SCANNERS

There are several different scanners used to carry an ultrasonic search unit over the outside surfaces of the various welds. Assembly drawings and functional descriptions of each of those devices are included in Appendix 14B to this section. Following is a list of those scanners. Note that different scanners may employ common carriages:

a. RPV Longitudinal and Circumferential Weld Scanner

b. Nozzle-to-Vessel Weld Scanner

c. Nozzle Butt Weld Scanner

d. Nozzle Inner Radius Scanner

e. Bottom Head Weld Scanner

f. Scanner Control Equipment

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APPENDIX 14B

REMOTE WELD SCANNERS

- ASSEMBLY DRAWINGS
- FUNCTIONAL DESCRIPTIONS

(L A T E R)

15.0--PSI REPORT SUBMITTAL

Following the completion of the WNP-2 Preservice Inspection, a Preservice Inspection Report will be prepared by the Supply System and filed with the enforcement and regulatory authorities having jurisdiction at the plant site. The report will satisfy the reporting requirements of the reference ASME Section XI Code, Article IWA-6000, "RECORDS AND REPORTS".

The WNP-2 Preservice Inspection Report will include, but not be limited to, the following information:

1. Abstract, including form NIS-1.

2. Authorized Inspector approval.

3. Summary of examinations and results, including disposition of significant indications.

4. Procedures used during the PSI effort.

5. Equipment, personnel, and material certifications.

6. Report supplement itemizing the examinations performed, procedures used, data sheet references, and results of each examination. This supplement will consist of the following:

   a. For piping systems involving volumetric and surface examinations, including the RPV and appurtenances, the supplement will include weld and component identification diagrams which reflect as-built, as-examined conditions, and non-destructive examination summary tables which list the examination results for each examination item.

   b. For piping systems involving only visual examinations, the supplement will include the weld and component identification diagrams which reflect as-built, as-examined conditions, and a summary of examination results for each system.

The format for the non-destructive examination summary tables is shown on the following pages, including sample completed tables with typical entries.

At the time of issuance of this document, the filing of the PSI final report is anticipated to occur in September, 1980.

NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE

WNP-_____

INTERVAL:_____ SYSTEM OR COMPONENT:_____ PAGE ___ OF ___

PERIOD:_____ DESCRIPTION:_____ DATE _____

DWG NO.	IDENT NO.	EXAM METHOD						EXAM DATA SHEET NO.	EXAMINATION RESULTS				REMARKS
		VOL	SUR	VT-1	VT-2	VT-3	VT-4		NO INDICATIONS	INSIGNIF INDICATIONS	SIGNIFICANT INDICATIONS		
											GEOMETRY	OTHER	

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NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE

WNP-2

INTERVAL: Baseline

PERIOD: N/A

SYSTEM OR COMPONENT: RHR

DESCRIPTION: SHUTDOWN COOLING RETURN LOOP "A"

DATE 11/27/80

DWG NO.	IDENT NO.	EXAM METHOD						EXAM DATA SHEET NO.	EXAMINATION RESULTS				REMARKS
		VOL	SUR	VT-1	VT-2	VT-3	VT-4		NO INDICATIONS	INSIGNIF INDICATIONS	SIGNIFICANT INDICATIONS GEOMETRY	SIGNIFICANT INDICATIONS OTHER	
RHR-105	12RHR(1)A-1	X						054-61	45°				
			X					046-18	X				
RHR-105	12RHR(1)A-2	X						054-62	45°				
			X					046-18	X				Access limited on one side by nameplate.
RHR-105	12RHR(1)A-3	X						054-62				45°	1 planer indication.
			X					046-18	X				
RHR-105	12RHR(1)A-4	X						054-61	45°				
			X					046-18	X				
RHR-105	12RHR(1)A-5	X						054-64	45°				
			X					046-18	X				Weld examined from penetration side only. Elbowlet obstructs other side.
RHR-105	12RHR(1)-6	X						054-61	45°				
			X					046-18	X				

NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE

WNP-2

INTERVAL: Baseline

PERIOD: N/A

SYSTEM OR COMPONENT: MS(1)-4

DESCRIPTION: Class 2 Main Steam Line B

DATE 11/29/78

DWG NO.	IDENT NO.	EXAM METHOD						EXAM DATA SHEET NO.	EXAMINATION RESULTS				REMARKS
		VOL	SUR	VT-1	VT-2	VT-3	VT-4		NO INDICATIONS	INSIGNIF INDICATIONS	SIGNIFICANT INDICATIONS GEOMETRY	SIGNIFICANT INDICATIONS OTHER	
MS-202	26MS(1)B-19	X						054-89	0^o, 45^o				Weld examined from pipe side only; valve geometry obstructs other side.
			X					054-122					
								046-27	X				
MS-202	26MS(1)B-19LD	X						054-81	0^o, 45^o				
			X					054-122					
								046-27	X				
MS-202	26MS(1)B-206LU	X						054-89	0^o, 45^o				Portion of seam under hanger 19PR not examined - not required in service.
			X					054-122					
								046-27	X				
MS-202	26MS(1)B-20	X						054-90			45^o (1)	45^o (2)	2 planar indications.
			X					054-123					
								046-27	X				

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NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE

WNP-2

INTERVAL: Baseline

PERIOD: N/A

SYSTEM OR COMPONENT: RPV

DESCRIPTION: SHELL COURSE #3, AUTOMATED

DATE 11/26/78

DWG NO.	IDENT NO.	EXAM METHOD						EXAM DATA SHEET NO.	EXAMINATION RESULTS				REMARKS
		VOL	SUR	VT-1	VT-2	VT-3	VT-4		NO INDICATIONS	INSIGNIF INDICATIONS	SIGNIFICANT INDICATIONS: GEOMETRY	SIGNIFICANT INDICATIONS: OTHER	
RPV-101	AD	X						030-4 030-5 030-6	60°			0°, 45°	1 Planar indication 3 laminar indications 40% of weld inaccessible to remote examination device.
RPV-101	BM	X						030-12 030-13 030-14	45°, 60°			0°	15 laminar indications
RPV-101	N4-270	X						037-1 037-2 037-3	0°,45°,60°				Bottom half of nozzle not scanned due to insulation interference.

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