INSERVICE INSPECTION SUMMARY REPORT
FOR
REFUELING OUTAGE RF95

OWNER: Washington Public Power Supply System
3000 George Washington Way
Richland, Washington 99352

PLANT: WNP-2, located 11 miles north of Richland, Washington on the U.S. Department of Energy Hanford Reservation

COMMERCIAL SERVICE DATE: December 13, 1984

CAPACITY: 3486 Megawatts Thermal

REACTOR PRESSURE VESSEL: Manufacturer: CBIN Serial Number: T-45
State No.: 29936-84W Nat'l Bd No.: 8

Prepared By: _____ 8-29-95
ISI Engineer Date

_____ 8/29/95
Repair/Replacement Engineer Date

Reviewed & Concurred By: _____ 8/29/95
Supervisor, Materials and Inspection Date

_____ 30 Aug 95
Manager, Quality Support Services Date

Concurrence: _____ 9-5-95
Authorized Nuclear Inservice Inspector Date

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SUMMARY

WNP-2 has completed ASME Section XI examinations for the first refueling outage of the second inspection interval. The following augmented examinations were also completed during this outage: core spray spargers, feedwater nozzle inner radius, Generic Letter 88-01, and examinations of high energy line break welds outside of ASME Section XI scope. WNP-2 is on schedule with its Generic Letter 88-01 commitments. No significant change was found in weld 20RRC(6)-8 indication (identified during R6).

EXAMINATION RESULTS

This report summarizes the results of inservice inspection (ISI) of ASME Section III, Code Class 1, 2 and 3 components and their supports performed at Washington Public Power Supply System (Supply System) Nuclear Plant No. 2 (WNP-2) between September 23, 1994 and June 24, 1995. Both General Electric (GE) and Supply System personnel performed the examinations. During this period, WNP-2 completed its tenth scheduled refueling outage, RF95 (R10). This outage is the first refueling outage of the second inspection interval. This report includes a copy of the NIS-1 Owner's Report of Inservice Inspection for this refueling outage in Appendix A.

Documentation supporting this summary report is located in the WNP-2 Operations File (DIC 1100).

The ISI examinations are specified in ASME Section XI and required by 10CFR50.55a. In addition, the following examinations were performed to meet augmented requirements or commitments.

- IGSCC (intergranular stress corrosion cracking) detection in stainless steel welds, based on Generic Letter 88-01.
- Visual examination of the core spray spargers and supply piping in the reactor pressure vessel.
- Feedwater nozzle inner radius and bore region for NUREG 0619.
- Welds in high energy line break boundary not examined under Section XI.

ASME SECTION XI EXAMINATIONS

The ASME Section XI examinations performed during the tenth refueling outage comply with the 1989 Edition with no Addenda.

The ASME Section XI examinations, tests, repairs and replacements were witnessed or verified by Authorized Nuclear Inservice Inspectors (ANII) D.E. Hoggarth, H.D. Haston, and C.F. Jones. They are employed by Factory Mutual Engineering Association, a subsidiary of Arkwright Mutual Insurance Company, Norwood, Massachusetts.

The items examined for ASME Section XI requirements are listed on the NIS-1 Owner's Data Report for Inservice Inspection. A copy is included as Appendix A. Approximately 13% of the required ISI items requiring examination for the second inspection interval have been examined. Table I summarizes the number of items completed by Examination Category and Item Number.

Examination of one ASME Section XI Examination Category C-F-2, item number C5.51 weld was limited to less than full ASME Section XI Code coverage for both the volumetric (ultrasonic) and surface (magnetic particle) methods. The limitation was due to lugs welded to the pipe for vibration damping after the first interval examinations.

Examination of one ASME Section XI Examination Category B-F, item number B5.10 weld was limited to less than full ASME Section XI Code coverage for the volumetric method (ultrasonic). The limitation was due to the nozzle-to-safe end configuration.

Post refueling leakage test and visual examination per Examination Category B-P found ten (10) Control Rod Drive housing flanges leaking at various rates, from one (1) drop per minute to one hundred drops per minute. Corrective measures were taken. Leaks on the worst cases were repaired. The other leaks were acceptable based on the leakage decreasing over time. Relief Requests 2ISI-06 and 2ISI-07 were implemented during this test.

During R10 examinations of component supports, it was discovered that a Scram Discharge Volume rigid component support had been examined during refueling outage R1 and the results recorded under two different identification numbers. G605 was reported in the R1 Summary Report to have been examined during that outage. It was discovered during R10 that this support number was in error and that an adjacent support had been examined and recorded as both G605 and G606 support numbers. Subsequent field inspection and fabrication record search confirmed that the support was never intended to be installed. All supports on this line requiring examination during the first interval were examined.

AUGMENTED EXAMINATIONS

GL 88-01 IGSCC (ISI Program Plan Section 6.2.3)

During refueling outage RF94 (R9), mechanical stress improvement process (MSIP) was applied to the 25 IGSCC category D welds. In addition 19 category A welds next to these D welds also received MSIP as a precautionary action. The 44 welds received post MSIP ultrasonic examination as part of the process at that outage. As part of GL 88-01, the 25 category D welds, now reclassifed as category C, require ultrasonic examination within 2 refuel cycles after stress improvement. Eight of these welds were ultrasonically examined during refueling outage R10. These welds are listed in Table II. Also, 14 of the category A welds receiving MSIP during refueling outage R9 were ultrasonically examined.

In addition to the post MSIP examinations, ultrasonic examinations were performed on six category B welds and one category F weld. Table III lists the welds that were examined per GL 88-01. Table IV presents the current GL 88-01 status.

The category F weld, 20RRC(6)-8, was examined for the fourth consecutive outage to determine the growth if any in the indication found during the sixth refueling outage. The indication increased 0.003 inches in depth from refueling outage R9 results. The analysis performed during refueling outage R6 for continued operation is still valid. The results of this examination and analysis for continued operation were submitted to the Commission for review and approval for continued operation (ref. letter GO2-95-097, dated May 15, 1995). The Commission approved operation for one more cycle. (ref. letter dated May 26, 1995, James W. Clifford to J.V. Parrish, "Reactor Recirculation Piping Weld Flaw Reinspection Results Review at Washington Public Power Supply System Nuclear Project No. 2").

High Energy Line Break Augmented Examinations (ISI Program Plan Section 6.2.1)

Fourteen welds were examined per the high energy line break commitment with no unacceptable indications. The welds examined are listed in Table V.

One Preservice Inspection (PSI) examination was completed on a new ASME Section III Code Class 2 weld 3MS(1)-1A. This weld replaced 3MS(1)-1. This weld is part of the augmented inspection program for high energy lines that penetrate containment.

Feedwater Nozzle Inner Radius (ISI Program Plan Section 6.2.3)

One feedwater nozzle inner radius, bore, and associated safe-end was examined. No unacceptable indications were found.

Core Spray Sparger and Supply Piping (ISI Program Plan Section 6.6.2)

A visual examination of the core spray spargers and their supply piping was performed per the requirements of IE Bulletin 80-13, "Cracking in Core Spray Sparger". The examination was performed using an underwater closed circuit TV system capable of resolving a 0.001 inch diameter wire in-situ. No unacceptable indications were observed.

Snubber Testing (ISI Program Plan section 6.2.2)

An initial sample of 37 snubbers was selected from the WNP-2 general population of 440 safety-related snubbers. These snubbers were randomly selected by computer sub-routine which is part of the ISI System data base. The selected snubbers were then reviewed to determine if the sample was representative, as required by Technical Specification 4.7.4.e.

Testing of snubbers was performed using portable test devices called "Validators", supplied by the snubber manufacturer. There were no unacceptable results. The snubbers tested are listed on the NIS-1 Owner's Report of Inservice Inspection form in Appendix A.

The functional test on snubber MSRV-5B-3 serial number 291 was satisfactory. The snubber had a rough spot and looked bad due to steam leakage impingement. To preclude further service life degradation it was replaced with a new tested snubber serial number 11862.

NON-REGULATORY AUGMENTED EXAMINATIONS

Additional Reactor Pressure Vessel (RPV) interior visual examinations were performed on jet pump sensing lines, jet pump adjusting screws and incore dry tubes with the guidance contained in General Electic Service Information Letters (SIL). These examinations were performed based on Supply System internal review of the applicable SILs and their application to WNP-2.

During refueling outage R9, a crack was found in jet pump 18 sensing line. Analysis at that time determined that no repair was needed until R11 and that the flaw should be examined again at R10. During R10 this flaw was examined and the results compared to R9. There was no noticable change. Eight of the other nineteen (19) sensing lines were examined as part of the sensing line inspection program. No indications were found in these lines.

Eight incore dry tubes were examined to compare the degree of errosion found in them during R9. No detectable change in the indications was noticed.

All 80 of the jet pump adjusting screw tack welds were visually examined. Two of the tack welds on two different screws were found to be cracked. An evaluation determined that repair was not required at this time.

REPAIRS AND REPLACEMENTS

Four (4) significant ASME Section XI repair or replacement activities were performed during the RF95A (R10) refueling outage as listed below. A listing and NIS-2 Owner's Reports for these and other ASME Section XI repair or replacement work accomplished and closed out between July 31, 1994 and July 9, 1995 are provided in Appendix C.

1) Local Power Range Monitoring (LPRM)

Replaced twelve (12) Local Power Range Monitoring (LPRM) incore assemblies.

2) Electrical Penetrations

Replaced seven (7) modules for four (4) electrical penetrations as follows - Electrical Penetration No X-101A - Position No's 2 and 3, Electrical Penetration No X-101C - Position No's 1 and 2, Electrical Penetration No X-101D - Position No's 1 and 2 and Electrical Penetration No X-100B - Position No 3.

3) Main Steam (MS) System

Refurbished ten (10) main steam relief valves. Refurbished and reinstalled two (2) main steam relief valves. Replaced nine (9) main steam relief valves.

4) Containment Exhaust Purge (CEP) System And Containment Supply Purge (CSP) System

Replaced two (2) 24" butterfly valves CEP-V-3A and CEP-V-4A in Containment Exhaust Purge (CEP) system. Replaced two (2) 30" butterfly valves CSP-V-1 and CSP-V-2 in Containment Supply Purge (CSP) system.

Table I SUMMARY OF COMPLETED ITEMS BY EXAMINATION CATEGORY

Category	Item No.	Description	Complete
B-D	Full Penetration Welds of Nozzles in Vessels		
	B3.100	Nz Inside Radius Section	1
B-F	Pressure Retaining Dissimilar Metal Welds		
	B5.10	RPV - eq or > 4 NPS Nz-to-SE Butt	1
	B5.130	Piping - eq or > 4 NPS Dissimilar Metal Butt Welds	6
B-G-2	Pressure Retaining Bolting, 2 in. and less in dia.		
	B7.70	Valves - Bolts, Studs, and Nuts	2
B-J	Pressure Retaining Welds in Piping		
	B9.11	Circumferential Welds - NPS 4 or Larger	22
	B9.12	Longitudinal Welds - NPS 4 or Larger	2
	B9.31	Branch Connections NPS 4 or Larger	1
	B9.32	Branch Connections Less Than NPS 4	1
B-K-1	Integral Attachments for Piping, Pumps, and Valves		
	B10.10	Piping - Intg Welded Att	3
	B10.20	Pumps - Intg Welded Att	1
B-M-2	Valve Bodies		
	B12.50	Valve Body - > NPS 4	1
B-P	All Pressure Retaining Components		
	B15.10	RPV - Pressure Retaining Boundary	2
	B15.50	Piping - Pressure Retaining Boundary	31
	B15.60	Pumps - Pressure Retaining Boundary	1
	B15.70	Valves - Pressure Retaining Boundary	75
C-C	Intgrl Att for Vessels, Piping, Pumps, and Valves		
	C3.20	Piping - Integrally Welded Attachments	6
C-F-2	Pressure Retaining Welds in Carbon Piping		
	C5.51	Piping Welds - > 4 NPS, eq or > 3/8 Nom. Wall Thk. - Circumferential	15
	C5.52	Piping Welds - > 4 NPS, eq or > 3/8 Nom. Wall Thk. - Longitudinal	13
	C5.81	Pipe Branch Connections of Branch Piping 2 NPS or Greater -	1
F-A	Supports		
	F1.10A	Cl 1 piping supports, rigid, strut, anchor, rod	3
	F1.10C	Cl 1 piping supports, spring	1
	F1.10D	Cl 1 piping supports, snubbers	1
	F1.20A	Cl 2 piping supports, rigid, strut, anchor, rod	10
	F1.20C	Cl 2 piping supports, spring	3
	F1.30A	Cl 3 piping supports, rigid, strut, anchor, rod	4
	F1.30C	Cl 3 piping supports, spring	2
	F1.40A	Supports other than piping, rigid, strut, anchor	21
	F1.40D	Supports other than piping, snubber	4

Table II IGSCC CATEGORY C WELDS EXAMINED AT R10

ISI Identification No.	ISI Diagram No.	Pg
10HPCS(1)-4	HPCS-101	2
10LPCS(1)-4	LPCS-101	2
12RFW(1)AA-11	RFW-101	3
12RFW(1)AB-11	RFW-101	4
12RFW(1)AC-13	RFW-101	5
12RFW(1)BD-11	RFW-102	3
12RFW(1)BE-11	RFW-102	4
12RFW(1)BF-14	RFW-102	5

Table III GL 88-01 WELDS EXAMINED AT REFUELING OUTAGE 10

ISI Identification No.	CATEGORY	ISI Diagram No.	Pg
24RRC(1)A-13/4RRC(8)-4S	B	RRC-101	2
24RRC(1)A-20/12CAP	B	RRC-101	2
20RRC(6)-8	F	RRC-105	
4RRC(4)A-1	B	RRC-108	
4RRC(4)A-5	B	RRC-108	
4RRC(4)A-9	B	RRC-109	
4RRC(4)A-11	B	RRC-109	

Table IV STATUS OF GL 88-01 PROGRAM

Category (Total #)	Required within 6 yrs[1]	Required within 10 yrs[1]	WNP-2 Status through R10 (After 6 yrs)[1]
A (57)	7	14	37[2]
B (147)	37	74	61

Category (Total #)[3]	Required within 2 RO	WNP-2 Status through R10 (After 1 RO)
C (25)	25	8

Category (Total #)[4]	Required within 1 yrs	WNP-2 Status through R10 (After 1 yr)
F (1)	1	1

1 WNP-2 commitment began at R4

2 WNP-2 requirements exceed GL 88-01 because of ASME Section XI requirements

3 Reexamine within 2 refueling outages of stress improvement. Stress improvement performed at R9.

4 This category "F" weld was reclassified from category "B" at R6.

Table V HIGH ENERGY LINE BREAK WELDS EXAMINED AT R10

ISI Identification No.	ISI Diagram No.	Pg
2MS(20)A-1	MS-201	5
2MS(20)A-2	MS-201	5
26MS(1)A-18	MS-201	1
26MS(1)A-19	MS-201	1
4RCIC(13)-23	RCIC-201	1
4RCIC(13)-24	RCIC-201	1
10RCIC(12)-1	RCIC-101	1
10RCIC(12)-4	RCIC-101	1
24RFW(1)A-1A	RFW-101	1
6RWCU(2)-1	RWCU-303	3
6RWCU(2)-2	RWCU-303	3
6RWCU(2)-3	RWCU-303	3
6RWCU(2)-4	RWCU-303	3
6RWCU(2)-9	RWCU-303	3

APPENDIX A

NIS-1 Owner's Report for Inservice Inspection

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, PO Box 968, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2
4. Owner Certificate of Authorization: NA
5. Commercial Service Date: 12/13/84
6. National Board Number: NA
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Pressure Vessel	CBIN Nuclear Co.	T-45	29936-84W	8
Large Bore Pipe	Bechtel - the piping examined is listed on pages 4-12 of this data report	NA	NA	NA
RHR-V-53B	Anchor / Darling Valve Co.	1N-140	NA	NA

FORM NIS-1 (back)

8. Examination Dates 9/23/94 to 6/24/95

9. Inspection Period Identification 1 10. Inspection Interval Identification 2

11. Applicable Edition of Section XI 1989 Addenda none

12. Date/Revision of Inspection Plan December, 1994, Revision 0

13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. Approximately 13% of the examinations required for this interval have been completed. See pages 4-12 for a listing of the examinations completed during this refuel outage.

14. Abstract of Results of Examinations and Tests. 1) Weld 20RRC(6)-8 indication no significant change from previous examination. Continued on page 13.

15. Abstract of Corrective Measures. 1) Weld 20RRC(6)-8 reexamination determined indication was still bounded by refueling outage R6 analysis. Continued on page 13.

We certify that a) statements made in this report are correct b) the examinations and tests meet the Inspection Plan as required by ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) NA Expiration Date NA

Date 8-29 1995 Signed Washington Public Power Supply System By
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Data Report during the period 9-23-94 to 6-24-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions NB9318 9318W A,N,I
National Board, State, Province, and Endorsements

Date August 29 1995

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, PO Box 968, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2
4. Owner Certificate of Authorization: NA
5. Commercial Service Date: 12/13/84
6. National Board Number: NA

13. Abstract of Examinations and Tests.

Snubber testing IWF-5000

Snubber Mark No.	Position	Description	Serial No.	Test Date
CEP-907S	UA	PSA-1/2 SNUBBER	429	4/24/95
FPC-918N	UA	PSA-1 SNUBBER	114	4/25/95
HPCS-924N	W	PSA-3 SNUBBER	3883	4/24/95
MD-1285-14C	UA	PSA-1/4 SNUBBER	19886	4/26/95
MD-1288-18	UA	PSA-1/4 SNUBBER	287	4/25/95
MS-1369-13	UA	PSA-1/2 SNUBBER	2147	4/26/95
MS-999N	UA	PSA-10 SNUBBER	328	4/26/95
MS-SC-3	UA	PSA-35 SNUBBER	4156	5/01/95
MSRV-1D-3	UA	PSA-10 SNUBBER	9930	4/27/95
MSRV-2C-5	UA	PSA-10 SNUBBER	9921	4/26/95
MSRV-2C-7	UA	PSA-10 SNUBBER	9926	4/27/95
MSRV-3C-2	UA	PSA-10 SNUBBER	4865	4/28/95
MSRV-5B-3	UA	PSA-10 SNUBBER	291	4/28/95[1]
MSRV-5B-3	UA	PSA-10 SNUBBER	11862	4/29/95
RCIC-1	UA	PSA-1 SNUBBER	587	4/24/95
RFW-162	W	PSA-10 SNUBBER	132	4/29/95
RHR-150	SE	PSA-3 SNUBBER	656	4/24/95
RHR-2264-22	UA	PSA-1 SNUBBER	352	4/27/95
RHR-244	UA	PSA-35 SNUBBER	12713	4/25/95
RHR-271	N	PSA-3 SNUBBER	3885	4/24/95
RHR-273	UA	PSA-3 SNUBBER	508	4/25/95
RHR-361	UA	PSA-3 SNUBBER	2786	4/24/95
RHR-419	W	PSA-3 SNUBBER	4475	4/24/95
RHR-443	UA	PSA-1/2 SNUBBER	2156	4/26/95
RHR-453	UA	PSA-1/4 SNUBBER	6210	4/24/95
RHR-479	E	PSA-3 SNUBBER	620	4/25/95
RHR-494	UA	PSA-10 SNUBBER	13034	4/27/95
RHR-495	BM	PSA-35 SNUBBER	6175	4/27/95
RHR-52	UA	PSA-3 SNUBBER	4463	4/26/95
RHR-902N	UA	PSA-10 SNUBBER	303	4/24/95
RHR-914N	UA	PSA-10 SNUBBER	103	4/24/95
RHR-954N	W	PSA-1 SNUBBER	125	4/24/95
RHR-980N	UA	PSA-10 SNUBBER	11850	4/25/95
RHR-SA-34	UA	PSA-35 SNUBBER	9261	4/27/95
RHR-SA-50	UA	PSA-35 SNUBBER	6095	4/27/95
RRC-1C-900N	TP	PSA-1 SNUBBER	583	4/28/95
RWCU-1C-8	UA	PSA-3 SNUBBER	2587	5/09/95
SW-29	NW	PSA-10 SNUBBER	4859	4/26/95

KEY

BM	Bottom	SE	Southeast
E	East	SW	Southwest
N	North	TP	Top
NE	Northeast	UA	Unassigned - consists of a single snubber
NW	Northwest	W	West
S	South		

Notes to snubber functional testing

All snubber functional tests were acceptable.
None of the tested snubbers require testing at the next refueling outage.
Testing results are in PPM 7.4.7.4.2.

[1] Snubber MSRV-5B-3 s/n 291 passed the functional test. The snubber had a rough spot and looked bad due to steam leakage impingement. To preclude further service life degradation it was replaced with a new tested snubber s/n 11862.

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: NA
5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of Examinations and Tests.

Identification No.		Description	Diagram No.	Pg	Method	Report No.	Date	Results(1)
Examination Category:	B-D							
Item No. B3.100								
N4-150-IR		FW NZ-IR @ 150	RPV-101		VOL	2RPU-001	5/7/95	A
Examination Category:	B-F							
Item No. B5.10								
12RFW(1)AC-13		SE TO N4	RFW-101	05	SUR	2FWP-003	5/6/95	A
					VOL	R-R10-027	5/16/95	A
Item No. B5.130								
10LPCS(1)-3		SE EXT TO SE	LPCS-101	02	SUR	2LPP-001	5/8/95	A
					VOL	R-R10-023	5/15/95	A
12RFW(1)AC-12		SE/STUB TO SE	RFW-101	05	SUR	2FWP-003	5/6/95	A
					VOL	R-R10-026	5/16/95	A
12RFW(1)AB-9		SE EXT-SE STUB	RFW-101	04	SUR	2FWP-005	5/6/95	A
					VOL	R-R10-024	5/14/95	A
12RFW(1)AB-10		SE STUB TO SE	RFW-101	04	SUR	2FWP-005	5/6/95	A
					VOL	R-R10-025	5/15/95	A
12RFW(1)AA-9		SE EXT-SE STUB	RFW-101	03	SUR	2FWP-004	5/6/95	A
					VOL	R-R10-022	5/14/95	A
12RFW(1)AA-10		SE STUB-SE	RFW-101	03	SUR	2FWP-004	5/6/95	A
					VOL	R-R10-018	5/13/95	A
Examination Category:	B-G-2							
Item No. B7.50								
8MSR-4A-2BD		FLANGE BOLTING	MS-101	01	VT-1	2MSV-035	5/12/95	A(7)
8MSR-3A-2BD		FLANGE BOLTING	MS-101	01	VT-1	2MSV-025	5/11/95	A(7)
8MSR-2A-2BD		FLANGE BOLTING	MS-101	01	VT-1	2MSV-027	5/11/95	A(7)
8MSR-1A-2BD		FLANGE BOLTING	MS-101	01	VT-1	2MSV-029	5/11/95	A(7)
8MSR-5B-2BD		FLANGE BOLTING	MS-102	01	VT-1	2MSV-037	5/12/95	A(7)
8MSR-4B-2BD		FLANGE BOLTING	MS-102	01	VT-1	2MSV-034	5/12/95	A(7)
8MSR-3B-2BD		FLANGE BOLTING	MS-102	01	VT-1	2MSV-036	5/12/95	A(7)
8MSR-2B-2BD		FLANGE BOLTING	MS-102	01	VT-1	2MSV-019	5/11/95	A(7)
8MSR-1B-2BD		FLANGE BOLTING	MS-102	01	VT-1	2MSV-017	5/11/95	A(7)
8MSR-5C-2BD		FLANGE BOLTING	MS-103	01	VT-1	2MSV-007	5/11/95	A(7)
8MSR-4C-2BD		FLANGE BOLTING	MS-103	01	VT-1	2MSV-009	5/11/95	A(7)
8MSR-3C-2BD		FLANGE BOLTING	MS-103	01	VT-1	2MSV-011	5/11/95	A(7)
8MSR-2C-2BD		FLANGE BOLTING	MS-103	01	VT-1	2MSV-013	5/11/95	A(7)
8MSR-1C-2BD		FLANGE BOLTING	MS-103	01	VT-1	2MSV-015	5/11/95	A(7)
8MSR-4D-2BD		FLANGE BOLTING	MS-104	01	VT-1	2MSV-031	5/12/95	A(7)
8MSR-3D-2BD		FLANGE BOLTING	MS-104	01	VT-1	2MSV-030	5/12/95	A(7)
8MSR-2D-2BD		FLANGE BOLTING	MS-104	01	VT-1	2MSV-005	5/11/95	A(7)
8MSR-1D-2BD		FLANGE BOLTING	MS-104	01	VT-1	2MSV-032	5/12/95	A(7)
4MS(12)-1BD		FLANGE BOLTING	MS-106	01	VT-1	2MSV-001	5/12/95	A(7)
4RRC(8)2A-2BD		FLANGE BOLTING	RRC-101	01	VT-1	2RRV-002	5/12/95	A(7)
4RRC(8)1A-2BD		FLANGE BOLTING	RRC-101	02	VT-1	2RRV-003	5/12/95	A(7)
4RRC(8)2B-2BD		FLANGE BOLTING	RRC-102	01	VT-1	2RRV-004	5/12/95	A(7)
4RRC(8)1B-2BD		FLANGE BOLTING	RRC-102	02	VT-1	2RRV-001	5/12/95	A(7)

Notes are on page 12

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: NA
5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of Examinations and Tests.

Identification No.	Description	Diagram No.	Pg	Method	Report No.	Date	Results(1)
Examination Category: B-G-2							
Item No. B7.70							
MS-RV-4A-BLT	VALVE BOLTING	MS-101	01	VT-1	2MSV-023	5/11/95	A(7)
MS-RV-3A-BLT	VALVE BOLTING	MS-101	01	VT-1	2MSV-024	5/11/95	A(7)
MS-RV-2A-BLT	VALVE BOLTING	MS-101	01	VT-1	2MSV-026	5/11/95	A(7)
MS-RV-1A-BLT	VALVE BOLTING	MS-101	01	VT-1	2MSV-028	5/11/95	A(7)
MS-RV-5B-BLT	VALVE BOLTING	MS-102	01	VT-1	2MSV-022	5/11/95	A(7)
MS-RV-4B-BLT	VALVE BOLTING	MS-102	01	VT-1	2MSV-021	5/11/95	A(7)
MS-RV-3B-BLT	VALVE BOLTING	MS-102	01	VT-1	2MSV-020	5/11/95	A(7)
MS-RV-2B-BLT	VALVE BOLTING	MS-102	01	VT-1	2MSV-018	5/11/95	A(7)
MS-RV-1B-BLT	VALVE BOLTING	MS-102	01	VT-1	2MSV-016	5/11/95	A(7)
MS-RV-5C-BLT	VALVE BOLTING	MS-103	01	VT-1	2MSV-006	5/11/95	A(7)
MS-RV-4C-BLT	VALVE BOLTING	MS-103	01	VT-1	2MSV-008	5/11/95	A(7)
MS-RV-3C-BLT	VALVE BOLTING	MS-103	01	VT-1	2MSV-010	5/11/95	A(7)
MS-RV-2C-BLT	VALVE BOLTING	MS-103	01	VT-1	2MSV-012	5/11/95	A(7)
MS-RV-1C-BLT	VALVE BOLTING	MS-103	01	VT-1	2MSV-014	5/11/95	A(7)
MS-RV-4D-BLT	VALVE BOLTING	MS-104	01	VT-1	2MSV-002	5/11/95	A(7)
MS-RV-3D-BLT	VALVE BOLTING	MS-104	01	VT-1	2MSV-003	5/11/95	A(7)
MS-RV-2D-BLT	VALVE BOLTING	MS-104	01	VT-1	2MSV-004	5/11/95	A(7)
MS-RV-1D-BLT	VALVE BOLTING	MS-104	01	VT-1	2MSV-033	5/12/95	A(7)
RHR-V-50A-BLT	VALVE BOLTING	RHR-105		VT-1	2RHV-001	5/15/95	A
RHR-V-50B-BLT	VALVE BOLTING	RHR-106		VT-1	2RHV-002	5/15/95	A
Examination Category: B-J							
Item No. B9.11							
12HPCS(1)-6	ELL TO PIPE	HPCS-101	01	SUR	2HPM-001	5/6/95	A
				VOL	2HPU-001	5/6/95	A
					2HPU-003	5/6/95	A
12HPCS(1)-7	PIPE TO ELL	HPCS-101	01	SUR	2HPM-001	5/6/95	A
				VOL	2HPU-002	5/6/95	A
12LPCS(1)-21	PIPE TO VLV	LPCS-101	02	SUR	2LPM-001	5/8/95	A
				VOL	2LPU-002	5/8/95	A
12LPCS(1)-22	VLV TO PIPE	LPCS-101	02	SUR	2LPM-001	5/8/95	A
				VOL	2LPU-002	5/8/95	A
12LPCS(1)-23	PIPE TO ELL	LPCS-101	02	SUR	2LPM-001	5/8/95	A
				VOL	2LPU-002	5/8/95	A
26MS(1)A-6	PIPE TO ELL	MS-101	01	SUR	2MSM-010	4/28/95	A
				VOL	2MSU-019	5/1/95	A
26MS(1)A-17	PENE TO VALVE	MS-101	02	SUR	2MSM-011	5/1/95	A
				VOL	2MSU-020	5/2/95	A
10RCIC(12)-2	PIPE TO ELL	RCIC-101	01	SUR	2RIM-001	4/29/95	A
				VOL	2RIU-002	5/2/95	A
10RCIC(12)-3	ELL TO PIPE	RCIC-101	01	SUR	2RIM-001	4/29/95	A
				VOL	2RIU-003	5/2/95	A
6RCIC(1)-12	PIPE TO VLV	RCIC-102	01	SUR	2RIM-002	5/2/95	A
				VOL	2RIU-005	5/4/95	A

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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: NA
5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of Examinations and Tests.

Identification No.	Description	Diagram No.	Pg	Method	Report No.	Date	Results(1)
Examination Category : B-J							
Item No. B9.11							
24RFW(1)A-1	VALVE TO PIPE	RFW-101	01	SUR	2FWM-004	5/1/95	A
				VOL	2FWU-005	5/2/95	A
12RFW(1)AC-6	PIPE TO ELL	RFW-101	05	SUR	2FWM-003	4/29/95	A
				VOL	2FWU-001	5/1/95	A
12RFW(1)AC-7	ELL TO PIPE	RFW-101	05	SUR	2FWM-003	4/29/95	A
				VOL	2FWU-002	5/1/95	A
					2FWU-003	5/2/95	A
12RFW(1)BD-1	REDUCER TO PIPE	RFW-102	03	SUR	2FWP-002	5/4/95	A
				VOL	2FWU-007	5/4/95	A
6RFW(11)-1	VALVE TO PIPE	RFW-103		SUR	2FWP-006	5/17/95	A
				VOL	2FWU-009	5/17/95	A
					2FWU-010	5/19/95	A
6RFW(11)-2	PIPE TO ELL	RFW-103		SUR	2FWP-006	5/17/95	A
				VOL	2FWU-008	5/17/95	A
					2FWU-011	5/19/95	A
14LPCI(1)A-1	VLV TO PIPE	RHR-101		SUR	2RHM-007	5/2/95	A
				VOL	2RHU-007	5/7/95	A
20RHR(2)-11	ELL TO PIPE	RHR-104		SUR	2RHM-003	4/27/95	A
				VOL	2RHU-001	4/28/95	A
20RHR(2)-12	PIPE TO PEN	RHR-104		SUR	2RHM-001	4/27/95	A
				VOL	2RHU-002	4/28/95	A
12RHR(1)A-11	PIPE TO ELL	RHR-105		SUR	2RHM-002	4/27/95	A
				VOL	2RHU-003	4/28/95	A
4RRC(51)-6	PIPE TO VALVE	RRC-104		SUR	2RRM-001	5/16/95	A
				VOL	2RRU-001	5/16/95	A
20RRC(6)-8	PIPE TO VALVE	RRC-105		VOL	R-R10-001	5/4/95	R(2)
4RRC(4)B-9	PIPE TO ELL	RRC-109		SUR	2RRP-002	5/10/95	A
				VOL	R-R10-017	5/12/95	A
4RRC(4)B-11	PIPE - VALVE SE	RRC-109		VOL	R-R10-020	5/12/95	A
Item No. B9.12							
12HPCS(1)-6LUO	ELL SEAM	HPCS-101	01	SUR	2HPM-001	5/6/95	A
				VOL	2HPU-004	5/6/95	A
12HPCS(1)-6LUI	ELL SEAM	HPCS-101	01	SUR	2HPM-001	5/6/95	A
				VOL	2HPU-004	5/6/95	A
Item No. B9.31							
24RFW(1)A-1/5RFW(11)-4	PIPE TO WOL	RFW-101	01	SUR	2FWM-004	5/1/95	A
				VOL	2FWU-004	5/2/95	A
Item No. B9.32							
MS-V-28A/2MS(9)-4	DRAIN CONN	MS-101	02	SUR	2MSP-001	5/1/95	A
Examination Category : B-K-1							
Item No. B10.10							
MS-HA-1(W)	4 WELDED LUGS	MS-101	01	SUR	2MSM-012	5/7/95	A
RFW-182(W)	6 WELDED LUGS	RFW-102	01	SUR	2FWM-001	4/26/95	A

Notes are on page 12

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: NA
5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of Examinations and Tests.

Identification No.		Description	Diagram No.	Pg	Method	Report No.	Date	Results(1)
Examination Category:	B-K-1							
Item No. B10.10								
RFW-182(W)		6 WELDED LUGS	RFW-102	01	SUR	2FWP-001	4/26/95	A
RFW-175(W)		6 WELDED LUGS	RFW-102	05	SUR	2FWM-002	4/27/95	A
Item No. B10.20								
RRC-RB-1(W)		1 WELDED LUG	RRC-103		SUR	2RRP-001	5/10/95	A
Examination Category:	B-M-2							
Item No. B12.50								
RHR-V-53B-BDY		VALVE BODY	RHR-106		VT-3	2RHV-003	6/24/95	A
						2RHV-004	6/24/95	A
Examination Category:	B-P							
Item No. B15.10								
RPV-PB-101(L)		LK PRES BNDRY	RPV-101		VT-2	2VT2-95	5/29/95	A(3)
RPV-PB-102(L)		LK PRES BNDRY	RPV-102		VT-2	2VT2-95	5/29/95	R(3,4)
Item No. B15.50								
HPCS-PB-101(L)		LK PRES BNDRY	HPCS-101		VT-2	2VT2-95	5/29/95	A(3)
LPCS-PB-101(L)		LK PRES BNDRY	LPCS-101		VT-2	2VT2-95	5/29/95	A(3)
MS-PB-101(L)		LK PRES BNDRY	MS-101		VT-2	2VT2-95	5/29/95	A(3)
MS-PB-102(L)		LK PRES BNDRY	MS-102		VT-2	2VT2-95	5/29/95	A(3)
MS-PB-103(L)		LK PRES BNDRY	MS-103		VT-2	2VT2-95	5/29/95	A(3)
MS-PB-104(L)		LK PRES BNDRY	MS-104		VT-2	2VT2-95	5/29/95	A(3)
MS-PB-105(L)		LK PRES BNDRY	MS-105		VT-2	2VT2-95	5/29/95	A(3)
MS-PB-106(L)		LK PRES BNDRY	MS-106		VT-2	2VT2-95	5/29/95	A(3)
RCIC-PB-101(L)		LK PRES BNDRY	RCIC-101		VT-2	2VT2-95	5/29/95	A(3)
RCIC-PB-102(L)		LK PRES BNDRY	RCIC-102		VT-2	2VT2-95	5/29/95	A(3)
RFW-PB-101(L)		LK PRES BNDRY	RFW-101		VT-2	2VT2-95	5/29/95	A(3)
RFW-PB-102(L)		LK PRES BNDRY	RFW-102		VT-2	2VT2-95	5/29/95	A(3)
RFW-PB-103(L)		LK PRES BNDRY	RFW-103		VT-2	2VT2-95	5/29/95	A(3)
RHR-PB-101(L)		LK PRES BNDRY	RHR-101		VT-2	2VT2-95	5/29/95	A(3)
RHR-PB-102(L)		LK PRES BNDRY	RHR-102		VT-2	2VT2-95	5/29/95	A(3)
RHR-PB-103(L)		LK PRES BNDRY	RHR-103		VT-2	2VT2-95	5/29/95	A(3)
RHR-PB-104(L)		LK PRES BNDRY	RHR-104		VT-2	2VT2-95	5/29/95	A(3)
RHR-PB-105(L)		LK PRES BNDRY	RHR-105		VT-2	2VT2-95	5/29/95	A(3)
RHR-PB-106(L)		LK PRES BNDRY	RHR-106		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-101(L)		LK PRES BNDRY	RRC-101		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-102(L)		LK PRES BNDRY	RRC-102		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-104(L)		LK PRES BNDRY	RRC-104		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-105(L)		LK PRES BNDRY	RRC-105		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-106(L)		LK PRES BNDRY	RRC-106		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-107(L)		LK PRES BNDRY	RRC-107		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-108(L)		LK PRES BNDRY	RRC-108		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-109(L)		LK PRES BNDRY	RRC-109		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-110(L)		LK PRES BNDRY	RRC-110		VT-2	2VT2-95	5/29/95	A(3)
RRC-PB-111(L)		LK PRES BNDRY	RRC-111		VT-2	2VT2-95	5/29/95	A(3)
RWCU-PB-101(L)		LK PRES BNDRY	RWCU-101		VT-2	2VT2-95	5/29/95	A(3)

Notes are on page 12

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: NA
5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of Examinations and Tests.

Identification No.	Description	Diagram No.	Pg	Method	Report No.	Date	Results(1)
Examination Category : B-P							
Item No. B15.50							
SLC-PB-101(L)	LK PRES BNDRY	SLC-101		VT-2	2VT2-95	5/29/95	A(3)
Item No. B15.70							
HPCS-V-4-BDY(L)	LK PRES TEST	HPCS-101	01	VT-2	2VT2-95	5/29/95	A
HPCS-V-5-BDY(L)	LK PRES TEST	HPCS-101	02	VT-2	2VT2-95	5/29/95	A
HPCS-V-51-BDY(L)	LK PRES TEST	HPCS-101	02	VT-2	2VT2-95	5/29/95	A
LPCS-V-5-BDY(L)	LK PRES TEST	LPCS-101	01	VT-2	2VT2-95	5/29/95	A
LPCS-V-6-BDY(L)	LK PRES TEST	LPCS-101	02	VT-2	2VT2-95	5/29/95	A
LPCS-V-51-BDY(L)	LK PRES TEST	LPCS-101	02	VT-2	2VT2-95	5/29/95	A
MS-RV-4A-BDY(L)	LK PRES TEST	MS-101	01	VT-2	2VT2-95	5/29/95	A
MS-RV-3A-BDY(L)	LK PRES TEST	MS-101	01	VT-2	2VT2-95	5/29/95	A
MS-RV-2A-BDY(L)	LK PRES TEST	MS-101	01	VT-2	2VT2-95	5/29/95	A
MS-RV-1A-BDY(L)	LK PRES TEST	MS-101	01	VT-2	2VT2-95	5/29/95	A
MS-V-22A-BDY(L)	LK PRES TEST	MS-101	02	VT-2	2VT2-95	5/29/95	A
MS-V-28A-BDY(L)	LK PRES TEST	MS-101	02	VT-2	2VT2-95	5/29/95	A
MS-RV-5B-BDY(L)	LK PRES TEST	MS-102	01	VT-2	2VT2-95	5/29/95	A
MS-RV-4B-BDY(L)	LK PRES TEST	MS-102	01	VT-2	2VT2-95	5/29/95	A
MS-RV-3B-BDY(L)	LK PRES TEST	MS-102	01	VT-2	2VT2-95	5/29/95	A
MS-RV-2B-BDY(L)	LK PRES TEST	MS-102	01	VT-2	2VT2-95	5/29/95	A
MS-RV-1B-BDY(L)	LK PRES TEST	MS-102	01	VT-2	2VT2-95	5/29/95	A
MS-V-22B-BDY(L)	LK PRES TEST	MS-102	02	VT-2	2VT2-95	5/29/95	A
MS-V-28B-BDY(L)	LK PRES TEST	MS-102	02	VT-2	2VT2-95	5/29/95	A
MS-RV-5C-BDY(L)	LK PRES TEST	MS-103	01	VT-2	2VT2-95	5/29/95	A
MS-RV-4C-BDY(L)	LK PRES TEST	MS-103	01	VT-2	2VT2-95	5/29/95	A
MS-RV-3C-BDY(L)	LK PRES TEST	MS-103	01	VT-2	2VT2-95	5/29/95	A
MS-RV-2C-BDY(L)	LK PRES TEST	MS-103	01	VT-2	2VT2-95	5/29/95	A
MS-RV-1C-BDY(L)	LK PRES TEST	MS-103	01	VT-2	2VT2-95	5/29/95	A
MS-V-22C-BDY(L)	LK PRES TEST	MS-103	02	VT-2	2VT2-95	5/29/95	A
MS-V-28C-BDY(L)	LK PRES TEST	MS-103	02	VT-2	2VT2-95	5/29/95	A
MS-RV-4D-BDY(L)	LK PRES TEST	MS-104	01	VT-2	2VT2-95	5/29/95	A
MS-RV-3D-BDY(L)	LK PRES TEST	MS-104	01	VT-2	2VT2-95	5/29/95	A
MS-RV-2D-BDY(L)	LK PRES TEST	MS-104	01	VT-2	2VT2-95	5/29/95	A
MS-RV-1D-BDY(L)	LK PRES TEST	MS-104	01	VT-2	2VT2-95	5/29/95	A
MS-V-22D-BDY(L)	LK PRES TEST	MS-104	02	VT-2	2VT2-95	5/29/95	A
MS-V-28D-BDY(L)	LK PRES TEST	MS-104	02	VT-2	2VT2-95	5/29/95	A
RCIC-V-63-BDY(L)	LK PRES TEST	RCIC-101	01	VT-2	2VT2-95	5/29/95	A
RCIC-V-64-BDY(L)	LK PRES TEST	RCIC-101	01	VT-2	2VT2-95	5/29/95	A
RHR-V-23-BDY(L)	LK PRES TEST	RCIC-102	01	VT-2	2VT2-95	5/29/95	A
RHR-V-19-BDY(L)	LK PRES TEST	RCIC-102	01	VT-2	2VT2-95	5/29/95	A
RCIC-V-13-BDY(L)	LK PRES TEST	RCIC-102	01	VT-2	2VT2-95	5/29/95	A
RCIC-V-65-BDY(L)	LK PRES TEST	RCIC-102	01	VT-2	2VT2-95	5/29/95	A
RCIC-V-66-BDY(L)	LK PRES TEST	RCIC-102	03	VT-2	2VT2-95	5/29/95	A
RFW-V-65A-BDY(L)	LK PRES TEST	RFW-101	01	VT-2	2VT2-95	5/29/95	A
RFW-V-32A-BDY(L)	LK PRES TEST	RFW-101	01	VT-2	2VT2-95	5/29/95	A

Notes are on page 12

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: NA
5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of Examinations and Tests.

Identification No.	Description	Diagram No.	Pg	Method	Report No.	Date	Results(1)
Examination Category: B-P							
Item No. B15.70							
RFW-V-10A-BDY(L)	LK PRES TEST	RFW-101	01	VT-2	2VT2-95	5/29/95	A
RFW-V-11A-BDY(L)	LK PRES TEST	RFW-101	01	VT-2	2VT2-95	5/29/95	A
RFW-V-65B-BDY(L)	LK PRES TEST	RFW-102	01	VT-2	2VT2-95	5/29/95	A
RFW-V-32B-BDY(L)	LK PRES TEST	RFW-102	01	VT-2	2VT2-95	5/29/95	A
RFW-V-10B-BDY(L)	LK PRES TEST	RFW-102	01	VT-2	2VT2-95	5/29/95	A
RFW-V-11B-BDY(L)	LK PRES TEST	RFW-102	01	VT-2	2VT2-95	5/29/95	A
RWCU-V-40-BDY(L)	LK PRES TEST	RFW-103		VT-2	2VT2-95	5/29/95	A
RHR-V-42A-BDY(L)	LK PRES TEST	RHR-101		VT-2	2VT2-95	5/29/95	A
RHR-V-41A-BDY(L)	LK PRES TEST	RHR-101		VT-2	2VT2-95	5/29/95	A
RHR-V-111A-BDY(L)	LK PRES TEST	RHR-101		VT-2	2VT2-95	5/29/95	A
RHR-V-42B-BDY(L)	LK PRES TEST	RHR-102		VT-2	2VT2-95	5/29/95	A
RHR-V-41B-BDY(L)	LK PRES TEST	RHR-102		VT-2	2VT2-95	5/29/95	A
RHR-V-111B-BDY(L)	LK PRES TEST	RHR-102		VT-2	2VT2-95	5/29/95	A
RHR-V-42C-BDY(L)	LK PRES TEST	RHR-103		VT-2	2VT2-95	5/29/95	A
RHR-V-41C-BDY(L)	LK PRES TEST	RHR-103		VT-2	2VT2-95	5/29/95	A
RHR-V-111C-BDY(L)	LK PRES TEST	RHR-103		VT-2	2VT2-95	5/29/95	A
RHR-V-113-BDY(L)	LK PRES TEST	RHR-104		VT-2	2VT2-95	5/29/95	A
RHR-V-9-BDY(L)	LK PRES TEST	RHR-104		VT-2	2VT2-95	5/29/95	A
RHR-V-8-BDY(L)	LK PRES TEST	RHR-104		VT-2	2VT2-95	5/29/95	A
RHR-V-53A-BDY(L)	LK PRES TEST	RHR-105		VT-2	2VT2-95	5/29/95	A
RHR-V-50A-BDY(L)	LK PRES TEST	RHR-105		VT-2	2VT2-95	5/29/95	A
RHR-V-112A-BDY(L)	LK PRES TEST	RHR-105		VT-2	2VT2-95	5/29/95	A
RHR-V-53B-BDY(L)	LK PRES TEST	RHR-106		VT-2	2VT2-95	5/29/95	A
RHR-V-50B-BDY(L)	LK PRES TEST	RHR-106		VT-2	2VT2-95	5/29/95	A
RHR-V-112B-BDY(L)	LK PRES TEST	RHR-106		VT-2	2VT2-95	5/29/95	A
RRC-V-23A-BDY(L)	LK PRES TEST	RRC-101	01	VT-2	2VT2-95	5/29/95	A
RRC-V-60A-BDY(L)	LK PRES TEST	RRC-101	02	VT-2	2VT2-95	5/29/95	A
RRC-V-67A-BDY(L)	LK PRES TEST	RRC-101	02	VT-2	2VT2-95	5/29/95	A
RRC-V-23B-BDY(L)	LK PRES TEST	RRC-102	01	VT-2	2VT2-95	5/29/95	A
RRC-V-60B-BDY(L)	LK PRES TEST	RRC-102	02	VT-2	2VT2-95	5/29/95	A
RRC-V-67B-BDY(L)	LK PRES TEST	RRC-102	02	VT-2	2VT2-95	5/29/95	A
RWCU-V-102-BDY(L)	LK PRES TEST	RWCU-101	02	VT-2	2VT2-95	5/29/95	A
RWCU-V-1-BDY(L)	LK PRES TEST	RWCU-101	04	VT-2	2VT2-95	5/29/95	A
RWCU-V-4-BDY(L)	LK PRES TEST	RWCU-101	05	VT-2	2VT2-95	5/29/95	A
Examination Category: C-C							
Item No. C3.20							
MS-114(W)	8 WELDED LUGS	MS-201	02	SUR	2MSM-005	4/25/95	A
MS-89(W)	4 WELDED LUGS	MS-201	04	SUR	2MSM-007	4/26/95	A
MS-147(W)	8 WELDED LUGS	MS-202	03	SUR	2MSM-008	4/26/95	A
RHR-157(W)	4 WELDED LUGS	RHR-201	01	SUR	2RHM-009	5/15/95	A
RHR-238(W)	2 WELDED PLATES	RHR-201	08	SUR	2RHM-004	4/27/95	A
RHR-948N(W)	2 WELDED SADDLE	RHR-203	03	SUR	2RHM-005	5/1/95	A

Notes are on page 12

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: NA
5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of Examinations and Tests.

Identification No.	Description	Diagram No.	Pg	Method	Report No.	Date	Results(1)
Examination Category : C-F-2							
Item No. C5.51							
30MS(1)A-8	ELL TO PIPE	MS-201	02	SUR	2MSM-003	4/24/95	A
				VOL	2MSU-003	4/25/95	A
30MS(1)A-13	ELL TO PIPE	MS-201	02	SUR	2MSM-006	4/25/95	A
				VOL	2MSU-015	4/26/95	A
30MS(1)B-19	PIPE TO ELL	MS-202	03	SUR	2MSM-001	4/24/95	A
				VOL	2MSU-001	4/25/95	A
30MS(1)B-20	ELL TO PIPE	MS-202	03	SUR	2MSM-001	4/24/95	A
				VOL	2MSU-002	4/25/95	A
6MS(1)B-1	PIPE TO WOL	MS-202	04	SUR	2MSM-002	4/24/95	A
				VOL	2MSU-004	4/25/95	A
6MS(1)B-2	CAP TO PIPE	MS-202	04	SUR	2MSM-002	4/24/95	A(5)
				VOL	2MSU-005	4/25/95	A(5)
30MS(1)B-27	PIPE TO ELL	MS-202	04	SUR	2MSM-004	4/25/95	A
				VOL	2MSU-016	4/26/95	A
30MS(1)B-28	ELL TO PIPE	MS-202	04	SUR	2MSM-004	4/25/95	A
				VOL	2MSU-017	4/26/95	A
14RHR(1)A-2	PIPE TO ELL	RHR-201	01	SUR	2RHM-008	5/13/95	A
				VOL	2RHU-009	5/13/95	A
14RHR(1)A-3	ELL TO PIPE	RHR-201	01	SUR	2RHM-008	5/13/95	A
				VOL	2RHU-009	5/13/95	A
18RHR(1)A-1	REDUCER TO PIPE	RHR-201	01	SUR	2RHM-008	5/13/95	A
				VOL	2RHU-008	5/13/95	A
18RHR(1)A-8	PIPE TO TEE	RHR-201	01	SUR	2RHM-010	5/16/95	A
				VOL	2RHU-010	5/16/95	A
18RHR(1)A-24	ELL TO PIPE	RHR-201	03	SUR	2RHM-006	5/2/95	A
				VOL	2RHU-004	5/3/95	A
18RHR(1)A-25	PIPE TO ELL	RHR-201	03	SUR	2RHM-006	5/2/95	A
				VOL	2RHU-005	5/3/95	A
18RHR(1)A-30	ELL TO PIPE	RHR-201	03	SUR	2RHM-006	5/2/95	A
				VOL	2RHU-006	5/3/95	A
Item No. C5.52							
30MS(1)A-8LUI	ELL SEAM	MS-201	02	SUR	2MSM-003	4/24/95	A
				VOL	2MSU-010	4/25/95	A
30MS(1)A-8LUO	ELL SEAM	MS-201	02	SUR	2MSM-003	4/24/95	A
				VOL	2MSU-012	4/25/95	A
30MS(1)A-8LD	PIPE LONG SEAM	MS-201	02	SUR	2MSM-003	4/24/95	A
				VOL	2MSU-011	4/25/95	A
30MS(1)A-13LUO	ELL SEAM	MS-201	02	SUR	2MSM-006	4/25/95	A
				VOL	2MSU-013	4/26/95	A
30MS(1)A-13LD	PIPE LONG SEAM	MS-201	02	SUR	2MSM-006	4/25/95	A
				VOL	2MSU-013	4/26/95	A
30MS(1)B-19LU	PIPE LONG SEAM	MS-202	03	SUR	2MSM-001	4/24/95	A
				VOL	2MSU-007	4/25/95	A

Notes are on page 12

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: NA
5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of Examinations and Tests.

Identification No.	Description	Diagram No.	Pg	Method	Report No.	Date	Results(1)
Examination Category: C-F-2							
Item No. C5.52							
30MS(1)B-19LDO	ELL SEAM	MS-202	03	SUR	2MSM-001	4/24/95	A
				VOL	2MSU-006	4/25/95	A
30MS(1)B-20LUO	ELL SEAM	MS-202	03	SUR	2MSM-001	4/24/95	A
				VOL	2MSU-008	4/25/95	A
30MS(1)B-20LD	PIPE LONG SEAM	MS-202	03	SUR	2MSM-001	4/24/95	A
				VOL	2MSU-009	4/25/95	A
30MS(1)B-27LU	PIPE LONG SEAM	MS-202	04	SUR	2MSM-004	4/25/95	A
				VOL	2MSU-014	4/26/95	A
30MS(1)B-27LDO	ELL SEAM	MS-202	04	SUR	2MSM-004	4/25/95	A
				VOL	2MSU-014	4/26/95	A
30MS(1)B-28LUO	ELL SEAM	MS-202	04	SUR	2MSM-004	4/25/95	A
				VOL	2MSU-014	4/26/95	A
30MS(1)B-28LD	PIPE LONG SEAM	MS-202	04	SUR	2MSM-004	4/25/95	A
				VOL	2MSU-014	4/26/95	A
Item No. C5.81							
30MS(1)B-24/6MS(1)-4	WOL TO PIPE	MS-202	04	SUR	2MSM-004	4/25/95	A
Examination Category: F-A							
Item No. F1.10A							
HPCS-911N	RIGID STRUT	HPCS-101	01	VT-3	2HV-007	4/26/95	A
MS-SA-1	STRUT	MS-101	02	VT-3	2HV-009	4/26/95	A
MS-SA-2	STRUT	MS-101	02	VT-3	2HV-010	4/26/95	A
Item No. F1.10C							
RFW-175	SPRING	RFW-102	05	VT-3	2HV-006	4/26/95	A
Item No. F1.10D							
RCIC-1C-9	PSA-10 SNUBBER	RCIC-101	01	VT-3	2HV-014	4/26/95	A
Item No. F1.20A							
G319	RIGID	CRD-201	01	VT-3	2HV-019	5/1/95	A
G323	RIGID	CRD-201	01	VT-3	2HV-020	5/1/95	A
G503	RIGID	CRD-201	02	VT-3	2HV-021	5/1/95	A
G506	RIGID	CRD-201	03	VT-3	2HV-022	5/1/95	A
G603	RIGID	CRD-202	01	VT-3	2HV-016	5/1/95	A
G426	RIGID	CRD-202	01	VT-3	2HV-017	5/1/95	A
G604	RIGID	CRD-202	01	VT-3	2HV-018	5/1/95	A
HPCS-13	ANCHOR	HPCS-202	02	VT-3	2HV-003	4/25/95	A
HPCS-15	ANCHOR	HPCS-202	02	VT-3	2HV-037	5/3/95	A
RHR-238	ANCHOR	RHR-201	08	VT-3	2HV-038	5/4/95	A
Item No. F1.20C							
HPCS-44	SPRING	HPCS-202	02	VT-3	2HV-002	4/25/95	A
MS-89	SPRING	MS-201	04	VT-3	2HV-004	4/24/95	A
RHR-157	SPRING	RHR-201	01	VT-3	2HV-042	5/14/95	A
Item No. F1.30A							
MSRV-1A-4	STRUT	MS-301	01	VT-3	2HV-012	4/26/95	A
MSRV-3A-4	STRUT	MS-303	02	VT-3	2HV-013	4/26/95	A

Notes are on page 12

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: NA
5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of Examinations and Tests.

Identification No.	Description	Diagram No.	Pg	Method	Report No.	Date	Results(1)
Examination Category : F-A							
Item No. F1.30A							
SW-153	BOX	SW-303	02	VT-3	2HV-035	5/2/95	A
SW-198	BOX	SW-305	01	VT-3	2HV-005	4/22/95	A
Item No. F1.30C							
MS-267	SPRING	MS-301	02	VT-3	2HV-008	4/26/95	A
MS-270	SPRING	MS-302	02	VT-3	2HV-011	4/26/95	A
Item No. F1.30D							
MSRV-SB-3	PSA-10 SNUBBER	MS-309	01	VT-3	2HV-039	4/29/95	A(7)
Item No. F1.40A							
[illegible](CS)	PUMP BASE	HPCS-201	02	VT-3	2HV-001	4/25/95	A
[illegible](CS)	PUMP BASE	LPCS-201	02	VT-3	2HV-040	5/12/95	A
RCIC-P-1(CS)	PUMP BASE	RCIC-204	04	VT-3	2HV-028	5/1/95	A
RHR-P-2A(CS)	RHR PUMP BASE	RHR-213		VT-3	2HV-041	5/12/95	A
RHR-P-2B(CS)	RHR PUMP BASE	RHR-213		VT-3	2HV-026	5/1/95	A
RHR-P-2C(CS)	RHR PUMP BASE	RHR-213		VT-3	2HV-027	5/1/95	A
RHR-HX-1A(CS)	HX BASE	RHR-214		VT-3	2HV-034	5/2/95	A
RHR-HX-1B(CS)	HX BASE	RHR-214		VT-3	2HV-025	5/1/95	A
RPV STAB 45	STABLIZER	RPV-101		VT-3	2HV-047	5/16/95	A
RPV STAB 135	STABLIZER	RPV-101		VT-3	2HV-043	5/16/95	A
RPV STAB 225	STABLIZER	RPV-101		VT-3	2HV-050	5/16/95	A
RPV STAB 315	STABLIZER	RPV-101		VT-3	2HV-045	5/16/95	A
RPV STAB 0	STABLIZER	RPV-101		VT-3	2HV-046	5/16/95	A
RPV STAB 90	STABLIZER	RPV-101		VT-3	2HV-048	5/16/95	A
RPV STAB 180	STABLIZER	RPV-101		VT-3	2HV-049	5/16/95	A
RPV STAB 270	STABLIZER	RPV-101		VT-3	2HV-044	5/16/95	A
RPV(CS)	SKIRT & BAS PLT	RPV-101		VT-3	2HV-015	4/28/95	A
RRC-RB-1	STRUT	RRC-103		VT-3	2HV-030	5/2/95	A
SLC-TK-1(CS)	SLC TK SUPPORT	SLC-101	06	VT-3	2HV-036	5/3/95	A
SW-P-1A(CS)	PUMP BASE	SW-301	01	VT-3	2HV-024	5/2/95	A
SW-P-1B(CS)	PUMP BASE	SW-305	01	VT-3	2HV-023	5/2/95	A
Item No. F1.40D							
RRC-SB-3	PSA-100 SNUBBER	RRC-103		VT-3	2HV-031	5/2/95	A
RRC-SB-4	PSA-100 SNUBBER	RRC-103		VT-3	2HV-032	5/2/95	A
RRC-SB-5	PSA-100 SNUBBER	RRC-103		VT-3	2HV-029	5/2/95	A
RRC-SB-6	PSA-100 SNUBBER	RRC-103		VT-3	2HV-033	5/2/95	A

Notes
(1) A = Acceptable R = Rejectable
(2) Resizing of indication found in refuel outage 6. Analysis found indication acceptable for continued service
(3) Includes item number B15.70 valves, NPS 4 inch and smaller, within examination boundary.
(4) 10 CRD flanges found leaking at various rates
(5) Examination did not cover entire examination volume due to installed vibration dampers.
(6) Not used
(7) Preservice Inspection Examination

Notes are on page 12

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, PO Box 968, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2
4. Owner Certificate of Authorization: NA
5. Commercial Service Date: 12/13/84
6. National Board Number: NA

14. Abstract of Results of Examinations and Tests continued.

2) Ten CRD flanges leaked during post outage Class 1 leak test. 3) Weld 6MS(1)B-2 (C-F-2, C5.51) and weld 12RFW(1)AC-13 (B-F, B5.10) full Code examination volume not achieved.

15. Abstract of Corrective Measures continued.

2) Relief Request 2ISI-06 was implemented for the CRD flanges. The flange leaks were evaluated for corrective action. They were either repaired or accepted based on the leakage decreasing over time.

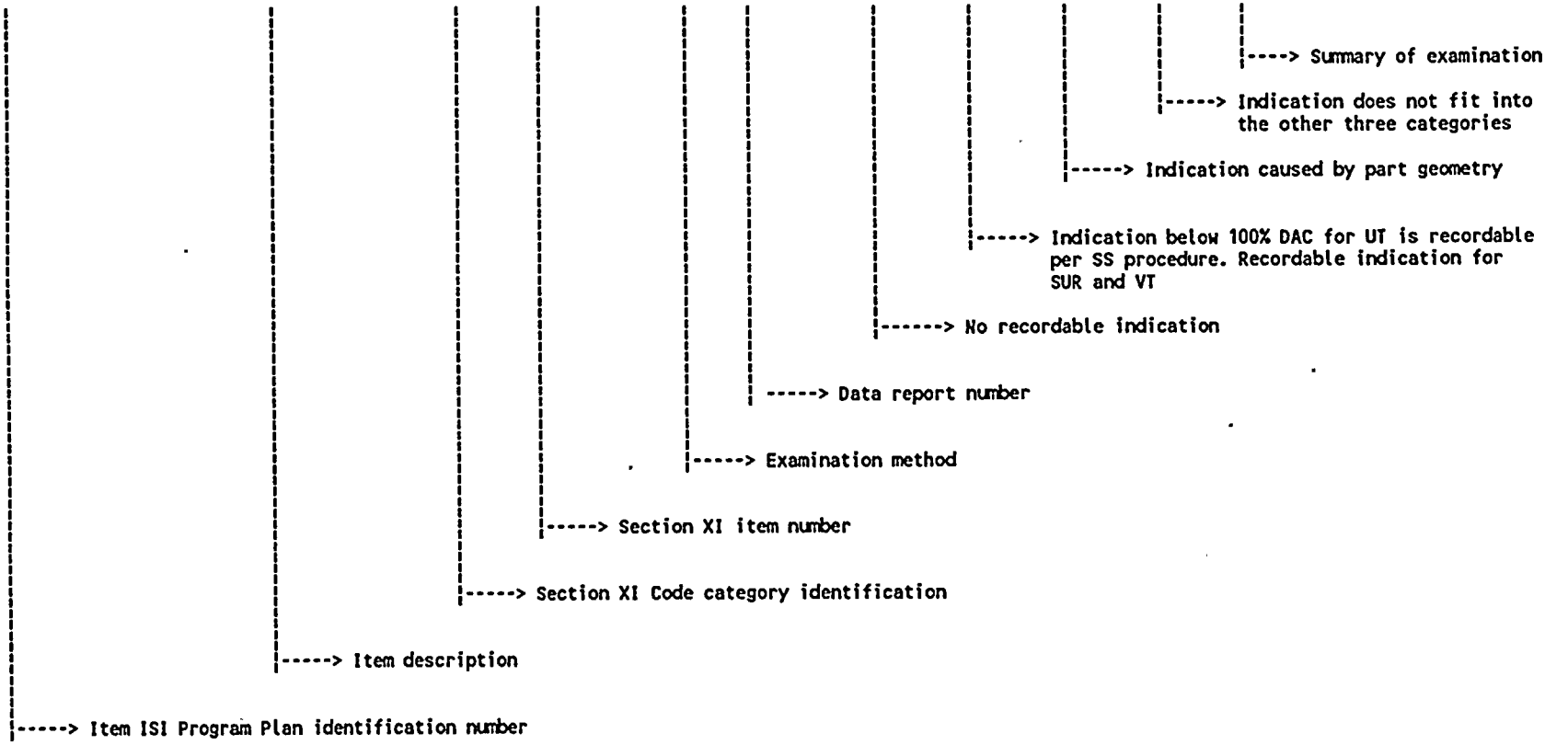
--- END OF REPORT --

APPENDIX B

This appendix summarizes the ISI results for refueling outage RF95A. This outage is identified as R10 in this summary.

Appendix B
Washington Public Power Supply System - WNP-2
ISI Examination Results - R10

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks



Appendix B
Washington Public Power Supply System - WNP-2
ISI Examination Results - R10

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
ISI Diagram No. CRD-201										
G319	RIGID	F-A	F1.20A	VT-3	2HV-019	ACC				No recordable indications
G323	RIGID	F-A	F1.20A	VT-3	2HV-020	ACC				No recordable indications
G503	RIGID	F-A	F1.20A	VT-3	2HV-021	ACC				No recordable indications
G506	RIGID	F-A	F1.20A	VT-3	2HV-022	ACC				No recordable indications
ISI Diagram No. CRD-202										
G603	RIGID	F-A	F1.20A	VT-3	2HV-016					No recordable indications
G426	RIGID	F-A	F1.20A	VT-3	2HV-017	ACC				No recordable indications
G604	RIGID	F-A	F1.20A	VT-3	2HV-018	ACC				No recordable indications
ISI Diagram No. HPCS-101										
HPCS-V-4-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
12HPCS(1)-6LUO	ELL SEAM	B-J	B9.12	SUR VOL	2HPM-001 2HPU-004	ACC 45				No recordable indications. No recordable indications.
12HPCS(1)-6LUI	ELL SEAM	B-J	B9.12	SUR VOL	2HPM-001 2HPU-004	ACC 45				No recordable indications. No recordable indications.
12HPCS(1)-6	ELL TO PIPE	B-J	B9.11	SUR VOL VOL	2HPM-001 2HPU-001 2HPU-003	ACC 45	 45			No recordable indications. ID geometry Scanned across weld to assure coverage. Two sided exam. Cal block UT-17 used for pipe side only. No recordable indications.
HPCS-911N	RIGID STRUT	F-A	F1.10A	VT-3	2HV-007		ACC			General surface corrosion on clamp, bolts and nuts. No material loss. Strut Per BDC 86-0525-6F-303.
12HPCS(1)-7	PIPE TO ELL	B-J	B9.11	SUR VOL	2HPM-001 2HPU-002	ACC 45				No recordable indications. Two sided exam. Scanned across weld to assure coverage. No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
HPCS-V-5-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
HPCS-V-51-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
10HPCS(1)-3	SE EXT TO SE	B-F	B5.130	VOL	R-R10-016		45,60			Beam redirect and root geometry recorded.
10HPCS(1)-4	SE TO NOZZLE	B-F	B5.10	VOL	R-R10-015		45,60			Non-relevant indications recorded.
HPCS-PB-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. HPCS-201										
HPCS-P-1(CS)	PUMP BASE	F-A	F1.40A	VT-3	2HV-001	ACC				HPCS-P-1 support - pump base
ISI Diagram No. HPCS-202										
HPCS-44	SPRING	F-A	F1.20C	VT-3	2HV-002	ACC				Variable spring can hanger. Note: Load tag painted over but still legible.
HPCS-13	ANCHOR	F-A	F1.20A	VT-3	2HV-003	ACC				Anchor -Freshly painted.
HPCS-15	ANCHOR	F-A	F1.20A	VT-3	2HV-037	ACC				Anchor
ISI Diagram No. LPCS-101										
LPCS-V-5-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
LPCS-V-6-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
12LPCS(1)-21	PIPE TO VLV	B-J	B9.11	SUR VOL	2LPM-001 2LPU-002	ACC 45				No recordable indications. 1. Weld #21 & #22 are single side exams due to pipe-valve configuration. 2. Weld #23 is single sided exam due to proximity of pipe clamp on surface #2. 3> Circ scan performed using 1/2v cal. 4. Axial scan across weld surface. No recordable indications.
LPCS-V-51-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications

Appendix B
Washington Public Power Supply System - WNP-2
ISI Examination Results - R10

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
12LPCS(1)-22	VLV TO PIPE	B-J	B9.11	SUR VOL	2LPM-001 2LPU-002	ACC 45				No recordable indications. 1. Weld #21 & #22 are single side exams due to pipe-valve configuration. 2. Weld #23 is single sided exam due to proximity of pipe clamp on surface #2. 3. Circ scan performed using 1/2 v cal. 4. Axial scan across weld surface. No recordable indications.
12LPCS(1)-23	PIPE TO ELL	B-J	B9.11	SUR VOL	2LPM-001 2LPU-002	ACC 45				No recordable indications. 1. Weld #21 & #22 are single side exams due to pipe-valve configuration. 2. Weld #23 is single sided exam due to proximity of pipe clamp on surface #2. 3. Circ scan performed using 1/2 v cal. 4. Axial scan across weld surface. No recordable indications.
10LPCS(1)-3	SE EXT TO SE	B-F	B5.130	SUR VOL	2LPP-001 R-R10-023	ACC	 45,60			No recordable indications. Non-relevant indications recorded along with root geometry.
10LPCS(1)-4	SE TO NOZZLE	B-F	B5.10	VOL	R-R10-021		45,60			Non-relevant indications recorded along with root geometry
LPCS-PB-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. LPCS-201										
LPCS-P-1(CS)	PUMP BASE	F-A	F1.40A	VT-3	2HV-040	ACC				No recordable indications
ISI Diagram No. MS-101										
MS-HA-1(W)	4 WELDED LUGS	B-K-1	B10.10	SUR	2MSM-012	ACC				No recordable indications.
26MS(1)A-6	PIPE TO ELL	B-J	B9.11	SUR VOL	2MSM-010 2MSU-019	ACC 45				No recordable indications. Scanned across weld surface. No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
8MSR-4A-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-035	ACC				Examined in place under tension. No recordable indications
MS-RV-4A-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-023	ACC				Examined in place under tension. Bolting had silver paint coating. No recordable indications
MS-RV-4A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-3A-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-025	ACC				Examined in place under tension. No recordable indications
MS-RV-3A-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-024		ACC			Examined in place under tension. 1. Minor corrosion on 2 nuts no material lost.
MS-RV-3A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-2A-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-027	ACC				Examined in place under tension. No recordable indications
MS-RV-2A-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-026	ACC				Examined in place under tension. No recordable indications
MS-RV-2A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-1A-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-029	ACC				Examined in place under tension. No recordable indications
MS-RV-1A-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-028	ACC				Examined in place under tension. No recordable indications
MS-RV-1A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-SA-1	STRUT	F-A	F1.10A	VT-3	2HV-009		ACC			Minor dust, debris on clamp, brackets probably from insulation removal. Strut per BDC 86-0525-4A-303.

Appendix B
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Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
MS-SA-2	STRUT	F-A	F1.10A	VT-3	2HV-010		ACC			Minor dust, debris on clamp, brackets probably from insulation removal. Strut per BDC 86-0525-4A-303.
MS-V-22A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
26MS(1)A-16	VALVE TO PENE	B-J	B9.11	SUR VOL	2MSH-009 2MSU-018	ACC 45				No recordable indications. One sided exam due to valve to penetration configuration. Scanned across weld to assure coverage. 1/2 vee cal use for cir scan. ID geometry noted 360 deg. intermittently at varying amp. below recordable levels. No recordable indications.
26MS(1)A-17	PENE TO VALVE	B-J	B9.11	SUR VOL	2MSH-011 2MSU-020	ACC 45				No recordable indications. One sided exam due to valve configuration. Scanned across weld to assure coverage. 1/2 vee cal use for circ scan.
MS-V-28A/2MS(9)-4	DRAIN CONN	B-J	B9.32	SUR	2MSP-001	ACC				No recordable indications.
MS-V-28A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-PB-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications Includes items on diagrams MS-107 and MSLC-101.
ISI Diagram No. MS-102										
8MSR-5B-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-037	ACC				Examined in place under tension. No recordable indications
MS-RV-5B-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-022	ACC				Examined in place under tension. Bolting had silver paint coating. No recordable indications
MS-RV-5B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
8MSR-4B-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-034	ACC				Examined in place under tension. No recordable indications
MS-RV-4B-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-021	ACC				Examined in place under tension. Bolting had silver paint coating. No recordable indications
MS-RV-4B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-3B-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-036	ACC				Examined in place under tension. No recordable indications
MS-RV-3B-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-020	ACC				Examined in place under tension. No recordable indications
MS-RV-3B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-2B-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-019	ACC				Examined in place under tension. No recordable indications
MS-RV-2B-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-018	ACC				Examined in place under tension. No recordable indications
MS-RV-2B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-1B-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-017	ACC				Examined in place under tension. No recordable indications
MS-RV-1B-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-016	ACC				Examined in place under tension. No recordable indications
MS-RV-1B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-V-22B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-V-28B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications

Appendix B
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Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
MS-PB-102(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications. Includes items on diagrams MS-108 and MSLC-102.
ISI Diagram No. MS-103										
8MSR-5C-28D	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-007	ACC				Examined in place under tension. No recordable indications
MS-RV-5C-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-006	ACC				Examined in place under tension. No recordable indications
MS-RV-5C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-4C-28D	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-009	ACC				Examined in place under tension. No recordable indications
MS-RV-4C-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-008	ACC				Examined in place under tension. No recordable indications
MS-RV-4C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-3C-28D	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-011	ACC				Examined in place under tension. No recordable indications
MS-RV-3C-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-010	ACC				Examined in place under tension. No recordable indications
MS-RV-3C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-2C-28D	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-013	ACC				Examined in place under tension. No recordable indications
MS-RV-2C-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-012	ACC				Examined in place under tension. No recordable indications
MS-RV-2C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
8MSR-1C-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-015	ACC				Examined in place under tension. No recordable indications
MS-RV-1C-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-014	ACC				Examined in place under tension. No recordable indications
MS-RV-1C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-V-22C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-V-28C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-PB-103(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications. Includes items on diagrams MS-109 and MSLC-103
ISI Diagram No. MS-104										
8MSR-4D-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-031	ACC				Examined in place under tension. No recordable indications
MS-RV-4D-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-002	ACC				Examined in place under tension. No recordable indications
MS-RV-4D-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-3D-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-030	ACC				Examined in place under tension. No recordable indications
MS-RV-3D-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-003	ACC				Examined in place under tension. No recordable indications
MS-RV-3D-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-2D-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-005	ACC				Examined in place under tension. No recordable indications

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Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
MS-RV-2D-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-004	ACC				Examined in place under tension. No recordable indications
MS-RV-2D-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-1D-28D	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-032	ACC				Examined in place under tension. No recordable indications
MS-RV-1D-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2MSV-033	ACC				Examined in place under tension. No recordable indications
MS-RV-1D-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-V-22D-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-V-28D-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
MS-PB-104(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications Includes items on diagrams MS-110 and MSLC-104
ISI Diagram No. MS-105										
MS-PB-105(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. MS-106										
4MS(12)-1BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2MSV-001	ACC				No recordable indications
MS-PB-106(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. MS-201										
26MS(1)A-18	VALVE TO PIPE	C-F-2	C5.51	VOL	2MSU-021	45				One sided exam due to valve configuration. Scanned across weld to assure coverage. 1/2 vee cal use for cir scan. No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
26MS(1)A-19	PIPE TO PIPE	C-F-2	C5.51	VOL	2MSU-022	45				Two sided exam. Scanned across weld to assure coverage. No recordable indications.
30MS(1)A-8LUI	ELL SEAM	C-F-2	C5.52	SUR VOL	2MSM-003 2MSU-010	ACC 45				No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30MS(1)A-8LUO	ELL SEAM	C-F-2	C5.52	SUR VOL	2MSM-003 2MSU-012	ACC 45				No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30MS(1)A-8	ELL TO PIPE	C-F-2	C5.51	SUR VOL	2MSM-003 2MSU-003	ACC 45				No recordable indications. Scanned across weld to assure coverage. ID geometry noted 360 deg. intermittently at varying amplitude below recording level. No recordable indications.
30MS(1)A-8LD	PIPE LONG SEAM	C-F-2	C5.52	SUR VOL	2MSM-003 2MSU-011	ACC 45				No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30MS(1)A-13LUO	ELL SEAM	C-F-2	C5.52	SUR VOL	2MSM-006 2MSU-013	ACC 45				No recordable indications. No recordable indications
30MS(1)A-13	ELL TO PIPE	C-F-2	C5.51	SUR VOL	2MSM-006 2MSU-015	ACC	45			No recordable indications. Scanned across weld surface. Root geometry observed 360 deg. intermittent at and below recordable levels. No other indications.
30MS(1)A-13LD	PIPE LONG SEAM	C-F-2	C5.52	SUR VOL	2MSM-006 2MSU-013	ACC 45				No recordable indications. No recordable indications
MS-114(W)	8 WELDED LUGS	C-C	C3.20	SUR	2MSM-005	ACC				No recordable indications.
MS-89(W)	4 WELDED LUGS	C-C	C3.20	SUR	2MSM-007	ACC				No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
MS-89	SPRING	F-A	F1.20C	VT-3	2HV-004	ACC				Variable spring hanger
2MS(20)A-1	SOL TO PIPE	AUGMT	NA	SUR	2HSP-002	ACC				No recordable indications.
2MS(20)A-2	PIPE TO ELL	AUGMT	NA	SUR	2HSP-002	ACC				No recordable indications.
ISI Diagram No. MS-202										
30MS(1)B-19LU	PIPE LONG SEAM	C-F-2	C5.52	SUR VOL	2HSM-001 2HSU-007	ACC 45				No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30MS(1)B-19	PIPE TO ELL	C-F-2	C5.51	SUR VOL	2HSM-001 2HSU-001	ACC 45				No recordable indications. Scanned across weld to assure coverage. ID geometry noted 360 deg. intermittently at varying amplitude below recording level. No recordable indications.
30MS(1)B-19LDO	ELL SEAM	C-F-2	C5.52	SUR VOL	2HSM-001 2HSU-006	ACC 45				No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30MS(1)B-20LUO	ELL SEAM	C-F-2	C5.52	SUR VOL	2HSM-001 2HSU-008	ACC 45				No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30MS(1)B-20	ELL TO PIPE	C-F-2	C5.51	SUR VOL	2HSM-001 2HSU-002	ACC 45				No recordable indications. Scanned across weld to assure coverage. ID geometry noted 360 deg. intermittently at varying amplitude below recording levels. No recordable indications.
30MS(1)B-20LD	PIPE LONG SEAM	C-F-2	C5.52	SUR VOL	2HSM-001 2HSU-009	ACC 45				No recordable indications. Scanned across weld to assure coverage. No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
MS-147(W)	8 WELDED LUGS	C-C	C3.20	SUR	2MSM-008	ACC				No recordable indications.
30MS(1)B-24/6MS(1)-4	WOL TO PIPE	C-F-2	C5.81	SUR	2MSM-004	ACC				No recordable indications.
6MS(1)B-1	PIPE TO WOL	C-F-2	C5.51	SUR	2MSM-002	ACC				No recordable indications.
				VOL	2MSU-004	45				Scan across weld to assure coverage. One sided exam due to pipe to wol configuration. 1/2 vee cal use for cir scan. No recordable indications.
6MS(1)B-2	CAP TO PIPE	C-F-2	C5.51	SUR	2MSM-002	ACC				No exam at 0 deg. for 1", at 7" for 1", and at 13" for 1" due to support ring. Full Code examination not obtained. No recordable indications.
				VOL	2MSU-005	45				Scan across weld to assure coverage. Able to obtain 81.35% total coverage (4 directions) due to vibration collar and sol obst. No exam performed from L - 7" to 8", 14" to 15", and 21" to .5" on clamp side. No exam performed from L - 14.5 to 17" on pipe side of weld.
30MS(1)B-27LU	PIPE LONG SEAM	C-F-2	C5.52	SUR	2MSM-004	ACC				No recordable indications.
				VOL	2MSU-014	45				No recordable indications
30MS(1)B-27	PIPE TO ELL	C-F-2	C5.51	SUR	2MSM-004	ACC				No recordable indications.
				VOL	2MSU-016		45			Scanned across weld surface. Ind #1 root geometry. No other recordable indications.
30MS(1)B-27LDO	ELL SEAM	C-F-2	C5.52	SUR	2MSM-004	ACC				No recordable indications.
				VOL	2MSU-014	45				No recordable indications
30MS(1)B-28LUO	ELL SEAM	C-F-2	C5.52	SUR	2MSM-004	ACC				No recordable indications.
				VOL	2MSU-014	45				No recordable indications

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Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
30MS(1)B-28	ELL TO PIPE	C-F-2	C5.51	SUR VOL	2MSM-004 2MSU-017	ACC 45				No recordable indications. Scanned across weld surface. No recordable indications.
30MS(1)B-28LD	PIPE LONG SEAM	C-F-2	C5.52	SUR VOL	2MSM-004 2MSU-014	ACC 45				No recordable indications. No recordable indications
ISI Diagram No. MS-206										
3MS(20)-1A	VALVE TO PIPE	AUGMT	NA	VOL	2MSU-023			45		ID geometry
ISI Diagram No. MS-301										
MSRV-1A-4	STRUT	F-A	F1.30A	VT-3	2HV-012	ACC				Strut per BDC 86-0525-4A.
MS-267	SPRING	F-A	F1.30C	VT-3	2HV-008	ACC				Variable spring
ISI Diagram No. MS-302										
MS-270	SPRING	F-A	F1.30C	VT-3	2HV-011	ACC				Variable spring (2)
ISI Diagram No. MS-303										
MSRV-3A-4	STRUT	F-A	F1.30A	VT-3	2HV-013	ACC				Strut per BDC 86-0525-4A.
ISI Diagram No. MS-309										
MSRV-5B-3	PSA-10 SNUBBER	F-A	F1.30D	VT-3	2HV-039	ACC				This snubber was removed for testing per RW401. It passed testing per PPM 7.4.7.4.2 but had a rough spot and looked bad due to steam leakage impingement. Replaced due to service life considerations. Old s/n was 291. PSI on replaced snubber s/n 11862.
ISI Diagram No. RCIC-101										
10RCIC(12)-1	SWL TO PIPE	B-J	B9.11	VOL	2RIU-001	45				Circ scan performed with 1/2 vee cal. No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
10RCIC(12)-2	PIPE TO ELL	B-J	B9.11	SUR VOL	2RIM-001 2RIU-002	ACC	45			No recordable indications. Scanned across weld. Root geometry observed 180 - 0 deg. intermittent. No other recordable indications.
10RCIC(12)-3	ELL TO PIPE	B-J	B9.11	SUR VOL	2RIM-001 2RIU-003	ACC 45				No recordable indications. Scanned across weld. No recordable indications.
10RCIC(12)-4	PIPE TO VLV	B-J	B9.11	VOL	2RIU-004		45			Circ scan performed with 1/2 vee cal. Root geometry, observed intermittently 360 deg. No other recordable indications.
RCIC-V-63-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RCIC-1C-9	PSA-10 SNUBBER	F-A	F1.10D	VT-3	2HV-014	ACC				Snubber
RCIC-V-64-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RCIC-PB-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications Includes diagram RCIC-103
ISI Diagram No. RCIC-102										
RHR-V-23-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-V-19-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RCIC-V-13-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
6RCIC(1)-12	PIPE TO VLV	B-J	B9.11	SUR VOL	2RIM-002 2RIU-005	ACC	45			No recordable indications. One sided exam due to valve configuration. ID geometry noted 360 deg. intermittently at varying amplitudes below recording levels. No other recordable indications.
RCIC-V-65-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RCIC-V-66-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RCIC-PB-102(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications

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Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
ISI Diagram No. RCIC-201										
4RCIC(13)-23	PIPE TO ELL	AUGMT	NA	VOL	2RIU-006		45			Two sided exam. scanned across weld to assure coverage. Indications 1 & 2 are ID geometry and noted 180 deg. intermittently at varying amplitudes.
4RCIC(13)-24	ELL TO PIPE	AUGMT	NA	VOL	2RIU-007		45			Two sided exam. scanned across weld to assure coverage. Indications 1 and 2 are ID geometry and noted 180 deg. at varying amplitudes.
ISI Diagram No. RCIC-204										
RCIC-P-1(CS)	PUMP BASE	F-A	F1.40A	VT-3	2HV-028	ACC				RCIC Pump base
ISI Diagram No. RFW-101										
RFW-V-65A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
24RFW(1)A-1A	PIPE TO VALVE	AUGMT	NA	VOL	2FWU-006		45			One sided exam due to valve configuration. Scanned across weld to assure coverage. 1/2 vee cal use for cir scan. ID geometry noted 360 deg. intermittently at varying amp. below recordable levels. No other recordable indications.
24RFW(1)A-1	VALVE TO PIPE	B-J	B9.11	SUR VOL	2FWM-004 2FWU-005	ACC 45				No recordable indications. One sided exam due to valve configuration. Scanned across weld to assure coverage. 1/2 vee cal used for cir scan. No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
24RFW(1)A-1/5RFW(11)-4	PIPE TO WOL	B-J	B9.31	SUR VOL	2FWM-004 2FWU-004	ACC 45				No recordable indications. One sided exam due to weldolet configuration. 1/2 vee cal used for cir scan.
RFW-V-32A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RFW-V-10A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RFW-V-11A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
12RFW(1)AC-6	PIPE TO ELL	B-J	B9.11	SUR VOL	2FWM-003 2FWU-001	ACC 45				No recordable indications. Scanned across weld surface. No recordable indications.
12RFW(1)AC-7	ELL TO PIPE	B-J	B9.11	SUR VOL VOL	2FWM-003 2FWU-002 2FWU-003	ACC	45 60			No recordable indications Scanned across weld surface. Indication to be further investigated using 60 deg. scan. Acceptance based on 60 deg. scan performed 050295 showed no flaw indication. No other recordable indications. 60 deg. scan performed to further investigate indication noted with 45 deg. scan on 5-1-95. No flaw-like indication observed. Scanned 2 sides of weld 0 - 80 deg. Root geometry observed at and below recordable levels intermittent 0 - 180 deg.
12RFW(1)AC-11	SE/EX-SE/STUB	B-F	B5.130	VOL	R-R10-029		45,60			Beam redirect and root geometry recorded
12RFW(1)AC-12	SE/STUB TO SE	B-F	B5.130	SUR VOL	2FWP-003 R-R10-026	ACC	 45			No recordable indications. Beam redirect and ID geometry recorded
12RFW(1)AC-13	SE TO N4	B-F	B5.10	SUR VOL	2FWP-003 R-R10-027	ACC	 45,60			No recordable indications. Beam redirect and root geometry recorded

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ISI Examination Results - R10

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
12RFW(1)AB-9	SE EXT-SE STUB	B-F	B5.130	SUR VOL	2FWP-005 R-R10-024	ACC	 45,60			No recordable indications. Beam redirect and root geometry recorded
12RFW(1)AB-10	SE STUB TO SE	B-F	B5.130	SUR VOL	2FWP-005 R-R10-025	ACC	 45,60			No recordable indications. Beam redirect and root geometry recorded
12RFW(1)AB-11	SE TO N4	B-F	B5.10	VOL	R-R10-028		45,60			Non-relevant indications and root geometry recorded
12RFW(1)AA-9	SE EXT-SE STUB	B-F	B5.130	SUR VOL	2FWP-004 R-R10-022	ACC	 45,60			No recordable indications. Beam redirect and root geometry recorded
12RFW(1)AA-10	SE STUB-SE	B-F	B5.130	SUR VOL	2FWP-004 R-R10-018	ACC	 45,60			No recordable indications. Non-relevant indications recorded
12RFW(1)AA-11	SE TO N4	B-F	B5.10	VOL	R-R10-019		45,60			Non-relevant indications recorded
RFW-PB-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RFW-102										
RFW-V-65B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RFW-V-32B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RFW-V-10B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RFW-182(W)	6 WELDED LUGS	B-K-1	B10.10	SUR SUR	2FWM-001 2FWP-001	ACC ACC				MT done on 5 lugs only - PT done on 1 due to accessibility. See report 2FWP-001. No recordable indications. PT on (1) lug that was unaccessible for MT. See report 2FWM-001. No recordable indications.
RFW-V-11B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RFW-175(W)	6 WELDED LUGS	B-K-1	B10.10	SUR	2FWM-002	ACC				No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
RFW-175	SPRING	F-A	F1.10C	VT-3	2HV-006	ACC				Tool marks on adjustment turnbuckle. Minor layer of debris/dust on top of clamp. Variable spring hanger.
12RFW(1)BF-12	SE EXT-SE STUB	B-F	B5.130	VOL	R-R10-014		45,60			Beam redirect and root geometry recorded
12RFW(1)BF-13	SE STUB TO SE	B-F	B5.130	VOL	R-R10-013		45			Beam redirect and root geometry recorded
12RFW(1)BF-14	SE TO N4	B-F	B5.10	VOL	R-R10-012		45,60			Beam redirect and root geometry recorded
12RFW(1)BE-9	SE EXT-SE STUB	B-F	B5.130	VOL	R-R10-009		45,60			Beam redirect and root geometry recorded
12RFW(1)BE-10	SE STUB TO SE	B-F	B5.130	VOL	R-R10-010		45			Non-relevant indications along with root geometry recorded
12RFW(1)BE-11	SE TO N4	B-F	B5.10	VOL	R-R10-008		45,60			Non-relevant indications recorded
12RFW(1)BD-1	REDUCER TO PIPE	B-J	B9.11	SUR VOL	2FWP-002 2FWU-007	ACC 45				No recordable indications. Circ scan performed with 1/2 vee cal. No recordable indications.
12RFW(1)BD-9	SE EXT-SE STUB	B-F	B5.130	VOL	R-R10-007		45,60			Beam redirect and root geometry recorded
12RFW(1)BD-10	SE STUB TO SE	B-F	B5.130	VOL	R-R10-011		45			Beam redirect and root geometry recorded
12RFW(1)BD-11	SE TO N4	B-F	B5.10	VOL	R-R10-006		45,60			Non-relevant indications and root geometry recorded
RFW-PB-102(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RFW-103										
RWCU-V-40-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications

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Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
6RFW(11)-1	VALVE TO PIPE	B-J	B9.11	SUR	2FWP-006	ACC				No recordable indications
				VOL	2FWU-009	45				No recordable indications
				VOL	2FWU-010	45				Root geometry observed at less than recordable levels 360 deg.
6RFW(11)-2	PIPE TO ELL	B-J	B9.11	SUR	2FWP-006		ACC			2 acceptable rounded indications
				VOL	2FWU-008	45				No recordable indications
				VOL	2FWU-011	45				Root geometry observed at less than recordable levels 360 deg.
RFW-PB-103(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RHR-101										
RHR-V-42A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
14LPCI(1)A-1	VLV TO PIPE	B-J	B9.11	SUR	2RHM-007	ACC				No recordable indications.
				VOL	2RHU-007	45				Exam one side only due to valve configuration.
										1 1/2v cal for axial scan.
										1/2v cal for circ scan.
										No recordable indications.
RHR-V-41A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-V-111A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-PB-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RHR-102										
RHR-V-42B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-V-41B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-V-111B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-PB-102(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RHR-103										
RHR-V-42C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
RHR-V-41C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-V-111C-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-PB-103(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RHR-104										
RHR-V-113-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-V-9-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
20RHR(2)-11	ELL TO PIPE	B-J	B9.11	SUR VOL	2RHM-003 2RHU-001	ACC 45				No recordable indications. Two sided exam. Scanned weld to assure coverage. No recordable indications.
20RHR(2)-12	PIPE TO PEN	B-J	B9.11	SUR VOL	2RHM-001 2RHU-002	ACC 45				No recordable indications. Two sided exam. Scanned across weld to assure coverage. Surface 1 beam direction B scan limited to 1.35" from weld center line due to penetration ring. No recordable indications.
RHR-V-8-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-PB-104(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RHR-105										
RHR-V-53A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
12RHR(1)A-11	PIPE TO ELL	B-J	B9.11	SUR VOL	2RHM-002 2RHU-003	ACC 45				No recordable indications. Two sided exam. Scanned across weld to assure coverage. No recordable indications.
RHR-V-50A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-V-50A-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2RHV-001	ACC				Examined in place under tension.
RHR-V-112A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications

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Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
RHR-PB-105(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RHR-106										
RHR-V-53B-BDY	VALVE BODY	B-M-2	B12.50	VT-3	2RHV-003		ACC			1. Valve body flange has minor surface oxidation - no discernable depth. Evidence of previous leakage. 2. Valve body downstream (outlet) nozzle has apparent light erosion (sandpaper texture) on the face of the outlet nozzle but not on the stellite seat. 3. The metal around the disk guide is galled.
				VT-3	2RHV-004	ACC				This report is documentation of a re-examination of condition 3 identified on report 2RHV-003. The smeared and extruded metal on the disk guide was removed and blended by grinding. There should be no interference with operation of the disk
RHR-V-53B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-V-50B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-V-50B-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2RHV-002	ACC				Examined in place under tension.
RHR-V-112B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RHR-PB-106(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RHR-201										
14RHR(1)A-2	PIPE TO ELL	C-F-2	C5.51	SUR VOL	2RHM-008 2RHU-009	ACC 45				No recordable indications Scanned across weld surfaces. No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
14RHR(1)A-3	ELL TO PIPE	C-F-2	C5.51	SUR VOL	2RHM-008 2RHU-009	ACC 45				No recordable indications. Scanned across weld surfaces. No recordable indications.
18RHR(1)A-1	REDUCER TO PIPE	C-F-2	C5.51	SUR VOL	2RHM-008 2RHU-008	ACC 45				No recordable indications Scanned across weld surface. No recordable indications.
RHR-157(W)	4 WELDED LUGS	C-C	C3.20	SUR	2RHM-009	ACC				No recordable indications.
RHR-157	SPRING	F-A	F1.20C	VT-3	2HV-042	ACC				Variable spring hanger, has recently been painted.
18RHR(1)A-8	PIPE TO TEE	C-F-2	C5.51	SUR VOL	2RHM-010 2RHU-010	ACC	 45			No recordable indications ID geometry observed
18RHR(1)A-24	ELL TO PIPE	C-F-2	C5.51	SUR VOL	2RHM-006 2RHU-004	ACC	 45			No recordable indications. Intermittently 360 deg at varying lower amplitudes - root geo. 1 1/2 v cal used for axial scan. 1/2 v cal used for circ scan. No other recordable indications.
18RHR(1)A-25	PIPE TO ELL	C-F-2	C5.51	SUR VOL	2RHM-006 2RHU-005	ACC	 45			No recordable indications. Intermittently 360 deg. at varying lower amplitudes- root geo. 1 1/2 v cal used for axial scan. 1/2 v cal used for circ scan. No other recordable indications.
18RHR(1)A-30	ELL TO PIPE	C-F-2	C5.51	SUR VOL	2RHM-006 2RHU-006	ACC	 45			No recordable indications. 1 1/2 v cal used for axial scan. 1/2 v cal used for circ scan. Intermittently 360 deg. at varying lower amplitudes. Root geo. No other recordable indications.
RHR-238(W)	2 WELDED PLATES	C-C	C3.20	SUR	2RHM-004	ACC				No recordable indications.

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Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
RHR-238	ANCHOR	F-A	F1.20A	VT-3	2HV-038		ACC			Debris found inside tube steel end. These were removed. Minor corrosion in upper support to embed plate welds. No material loss. MT exam on saddle to pipe weld 4/27/95 as part of the ISI program.
ISI Diagram No. RHR-203										
RHR-948N(W)	2 WELDED SADDLE	C-C	C3.20	SUR	2RHM-005	ACC				No recordable indications.
ISI Diagram No. RHR-213										
RHR-P-2A(CS)	RHR PUMP BASE	F-A	F1.40A	VT-3	2HV-041	ACC				No recordable indications
RHR-P-2B(CS)	RHR PUMP BASE	F-A	F1.40A	VT-3	2HV-026	ACC				RHR Pump base, examined in place, Small paint cracks on paint over base grout.
RHR-P-2C(CS)	RHR PUMP BASE	F-A	F1.40A	VT-3	2HV-027	ACC				RHR Pump base, examined in place.
ISI Diagram No. RHR-214										
RHR-HX-1A(CS)	HX BASE	F-A	F1.40A	VT-3	2HV-034	ACC				RHR-HX-1A Base examined in place. 572' & 548' RB
RHR-HX-1B(CS)	HX BASE	F-A	F1.40A	VT-3	2HV-025	ACC				RHR Heat Exchanger base examined in place. 572' RB & 548' RB.
ISI Diagram No. RPV-101										
N4-150-IR	FW NZ-IR @ 150	B-D	B3.100	VOL	2RPU-001	70,25				No recordable indications.
N4-150-NB	FW NZ BORE @150	B-D	NA	VOL	2RPU-001	25,70				No recordable indications.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
JET PUMP SENSING LINES	JP SENSING LINE	NA	NA	VT-1	2RPV-001				ACC	Reexam of jet pump sensing line 18 for change in crack. No change in crack was noted. Other sensing lines examined were on jet pumps 1, 2, 11, 12, 17, 19 and 20. No other indications were noted.
JET PUMP ADJ SCREWS	JP ADJ SCREW	NA	NA	VT-1	2RPV-001				REJ	A crack on the tack welds of adjusting screws for JP 5 and 14 was found. Evaluation by GE acceptable for service. Reference PER 295-0639
INCORE DRY TUBES	INCORE DRY TUBE	NA	NA	VT-1	2RPV-001				ACC	Errosion of tubes noted. Evaluation by GE during R9 is still valid. Condition is acceptable. Dry tubes 16-21, 16-45, 40-21, 24-29, 24-37, 32-29, 32-37, and 48-13 were examined.
CORE SPRAY SPARGERS	CORE SPRAY SPG	NA	NA	VT-1	2RPV-001	ACC				No recordable indications
RPV STAB 45	STABLIZER	F-A	F1.40A	VT-3	2HV-047	ACC				No recordable indications
RPV STAB 135	STABLIZER	F-A	F1.40A	VT-3	2HV-043	ACC				No recordable indications
RPV STAB 225	STABLIZER	F-A	F1.40A	VT-3	2HV-050	ACC				No recordable indications
RPV STAB 315	STABLIZER	F-A	F1.40A	VT-3	2HV-045	ACC				No recordable indications
RPV STAB 0	STABLIZER	F-A	F1.40A	VT-3	2HV-046	ACC				No recordable indications
RPV STAB 90	STABLIZER	F-A	F1.40A	VT-3	2HV-048	ACC				No recordable indications
RPV STAB 180	STABLIZER	F-A	F1.40A	VT-3	2HV-049	ACC				No recordable indications
RPV STAB 270	STABLIZER	F-A	F1.40A	VT-3	2HV-044	ACC				No recordable indications

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Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
RPV(CS)	SKIRT & BAS PLT	F-A	F1.40A	VT-3	2HV-015	ACC				RPV skirt and base plate. - Base plate, top of studs and nuts examined 0-360 deg. - Skirt examined on O.D. from base up approx. 6'. - Internal side insulated.
RPV-PB-101(L)	LK PRES BNDRY	B-P	B15.10	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RPV-102										
RPV-PB-102(L)	LK PRES BNDRY	B-P	B15.10	VT-2	2VT2-95				REJ	Ten CRD flanges leaking various rates. repaired under WO U287
ISI Diagram No. RRC-101										
RRC-V-23A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
4RRC(8)2A-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2RRV-002	ACC				Examined in place under tension.
24RRC(1)A-13/4RRC(8)-4S	PIPE TO SWL	B-J	B9.31	VOL	R-R10-004	45,60RL				No recordable indications
4RRC(8)1A-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2RRV-003	ACC				Examined in place under tension.
RRC-V-60A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RRC-V-67A-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
24RRC(1)A-20/12CAP	PIPE TO SWL	B-J	B9.31	VOL	R-R10-005	45,60RL				No recordable indications
RRC-PB-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RRC-102										
RRC-V-23B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
4RRC(8)2B-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2RRV-004	ACC				Examined in place under tension.
4RRC(8)1B-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2RRV-001	ACC				Examined in place under tension.
RRC-V-60B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
RRC-V-67B-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RRC-PB-102(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RRC-103										
RRC-SB-3	PSA-100 SNUBBER	F-A	F1.40D	VT-3	2HV-031	ACC				No recordable indications
RRC-SB-4	PSA-100 SNUBBER	F-A	F1.40D	VT-3	2HV-032	ACC				No recordable indications
RRC-SB-5	PSA-100 SNUBBER	F-A	F1.40D	VT-3	2HV-029	ACC				No recordable indications
RRC-SB-6	PSA-100 SNUBBER	F-A	F1.40D	VT-3	2HV-033	ACC				No recordable indications
RRC-RB-1	STRUT	F-A	F1.40A	VT-3	2HV-030	ACC				No recordable indications
RRC-RB-1(W)	1 WELDED LUG	B-K-1	B10.20	SUR	2RRP-001	ACC				No recordable indications.
ISI Diagram No. RRC-104										
4RRC(51)-6	PIPE TO VALVE	B-J	B9.11	SUR VOL	2RRM-001 2RRU-001	ACC	 45			No recordable indications ID geometry observed
RRC-PB-104(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RRC-105										
20RRC(6)-8	PIPE TO VALVE	B-J	B9.11	VOL	R-R10-001				45,60	Resizing of indication found at R6, length 3.6" and through wall dimension is 18.7%.
RRC-PB-105(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RRC-106										
RRC-PB-106(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RRC-107										
RRC-PB-107(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RRC-108										
4RRC(4)A-1	SOL TO PIPE	B-J	B9.11	VOL	R-R10-003	45,60RL				No recordable indications

Appendix B
Washington Public Power Supply System - WNP-2
ISI Examination Results - R10

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
4RRC(4)A-5	TEE TO PIPE	B-J	B9.11	VOL	R-R10-002	45,60RL				No recordable indications
RRC-PB-108(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RRC-109										
4RRC(4)B-9	PIPE TO ELL	B-J	B9.11	SUR VOL	2RRP-002 R-R10-017	ACC	 45			No recordable indications. Root geometry recorded
4RRC(4)B-11	PIPE - VALVE SE	B-J	B9.11	VOL	R-R10-020		45			Root geometry was recorded
RRC-PB-109(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RRC-110										
RRC-PB-110(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RRC-111										
RRC-PB-111(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RWCU-101										
RWCU-V-102-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RWCU-V-1-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RWCU-V-4-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
RWCU-PB-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RWCU-303										
6RWCU(2)-1	PIPE TO ELL	AUGMT	NA	VOL	2RTU-001	45				No recordable indications
6RWCU(2)-2	ELL TO PIPE	AUGMT	NA	VOL	2RTU-001	45				No recordable indications
6RWCU(2)-3	PIPE TO VLV	AUGMT	NA	VOL	2RTU-002	45				No recordable indications
6RWCU(2)-4	VLV TO PIPE	AUGMT	NA	VOL	2RTU-003	45				No recordable indications
6RWCU(2)-9	TEE TO VLV	AUGMT	NA	VOL VOL	2RTU-004 2RTU-005	45 45				No recordable indications Root geometry observed at less than recordable levels 360 deg.

Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
ISI Diagram No. SLC-101										
SLC-PB-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
SLC-TK-1(CS)	SLC TK SUPPORT	F-A	F1.40A	VT-3	2HV-036		ACC			Minor corrosion on bottom saddle weld, north side. No material loss. Tank base examined including nuts. Note: Fillet weld base to tank - part of tank itself. Nuts and studs accessible.
ISI Diagram No. SW-301										
SW-P-1A(CS)	PUMP BASE	F-A	F1.40A	VT-3	2HV-024		ACC			Intermittent minor surface corrosion on base plate and nuts - no material loss. Service water pump base, examined in place.
ISI Diagram No. SW-303										
SW-153	BOX	F-A	F1.30A	VT-3	2HV-035	ACC				Welded box
ISI Diagram No. SW-305										
SW-P-1B(CS)	PUMP BASE	F-A	F1.40A	VT-3	2HV-023		ACC			Intermittent minor surface corrosion on base plate and nuts - no material loss. Service water pump base examined in place.
SW-198	BOX	F-A	F1.30A	VT-3	2HV-005	ACC				Minor surface corrosion on some fillet welds. No material loss.

APPENDIX C

ASME SECTION XI REPAIR AND REPLACEMENT LISTING
NIS-2 OWNER'S REPORTS

This appendix summarizes ASME Section XI repair or replacement work performed between June 21, 1993 and July 30, 1995. The status of the NIS-2 Owner's Report is stated for each repair and replacement work performed.

APPENDIX C

ASME SECTION XI REPAIR AND REPLACEMENT LISTING
NIS-2 OWNER'S REPORTS

This appendix summarizes ASME Section XI repair or replacement work performed between July 31, 1994 and July 9, 1995. The status of the NIS-2 Owner's Report is stated for each repair and replacement work performed.

PLAN NO	WO NO	COMPONENT NUMBER / WORK DESCRIPTION	DESC OF COMP	R&R REPORTED IN
2-0977	FN 2201	Replaced valve PI-V-913	Piping	RF95A Summary Repo
2-0995	FR 4201	Drilled and tapped holes in the spare stuffing box removed from RRC-P-1A	Pump	RF95A Summary Repo
2-1067	UP 0602	Replaced rear snubber for valve CVB-V-1GH	Valve	RF95A Summary Report
2-1068	UN 0302	Replaced rear snubber for valve CVB-V-1ST	Valve	RF95A Summary Report
2-1104	CU 6301	Replaced disc insert and/or nozzle for relief valve S/N N63790-00-0054	Relief Valve	RF95A Summary Report
2-1105	CU 8201	Replaced disc insert and/or nozzle for relief valve S/N N63790-00-0049	Relief Valve	RF95A Summary Report
2-1106	CU 8202	Replaced disc insert and/or nozzle for relief valve S/N N63790-00-0058	Relief Valve	RF95A Summary Report
2-1107	CU 8203	Replaced disc insert and/or nozzle for relief valve S/N N63790-00-0061	Relief Valve	RF95A Summary Report
2-1108	CU 8204	Replaced disc insert and/or nozzle for relief valve S/N N63790-00-0059	Relief Valve	RF95A Summary Report
2-1109	MM 8101	Modified connection for valve RHR-V-250 (Dragon Valve)	Piping	See Note 1
2-1110	DP 8901	Made body to bonnet seal weld for valve FDR-V-192	Valve	RF95A Summary Report
2-1113	CU 7601	Replaced disc insert and/or nozzle for relief valve S/N N63790-00-0124	Relief Valve	RF95A Summary Report
2-1114	CU 8901	Replaced disc insert and/or nozzle for relief valve S/N N63790-00-0056	Relief Valve	RF95A Summary Report
2-1115	CU 8902	Replaced disc insert and/or nozzle for relief valve S/N N63790-00-0050	Relief Valve	RF95A Summary Report
2-1116	MX 1001	Replaced bolting material for valve PI-V-915	Valve	See Note 1
2-1117	MX 1101	Replaced bolting material for valve PI-V-916	Valve	See Note 1
2-1118	MX 1201	Replaced bolting material for valve PI-V-917	Valve	See Note 1
2-1119	MX 1301	Replaced bolting material for valve PI-V-918	Valve	See Note 1
2-1126	KX 0002	Replaced module (IST) for Position No 2 penetration X-101A	Penetration	RF95A Summary Report
2-1127	KX 0006	Replaced module (IST) for Position No 3 penetration X-101A	Penetration	RF95A Summary Report
2-1128	KX 0202	Replaced module (IST) for Position No 1 penetration X-101C	Penetration	RF95A Summary Report
2-1129	KX 0102	Replaced module (IST) for Position No 1 penetration X-101D	Penetration	RF95A Summary Report
2-1130	KX 0106	Replaced module (IST) for Position No 2 penetration X-101D	Penetration	RF95A Summary Report
2-1132	KV 3002	Replaced module (WNP-1) for Position No 3 for penetration X-100B	Penetration	RF95A Summary Report
2-1136	TU 5301	Replaced parts for valve SLC-V-4A	Valve	RF95A Summary Report
2-1137	KX 0206	Replaced module (IST) for Position No 2 penetration X-101C	Penetration	RF95A Summary Report
2-1139	CD 9701	Replaced existing relief valve MS-RV-1C with spare S/N N63790-00-0139	Piping	RF95A Summary Report
2-1140	NX 9101	Replaced existing relief valve MS-RV-2A with spare S/N N63790-00-0054	Piping	RF95A Summary Report
2-1141	NX 9201	Replaced existing relief valve MS-RV-3A with spare S/N N63790-00-0058	Piping	RF95A Summary Repor
2-1142	NX 9301	Replaced existing relief valve MS-RV-4C with spare S/N N63790-00-0056	Piping	RF95A Summary Report
2-1143	PA 1101	Replaced existing relief valve MS-RV-1A with spare S/N N63790-00-0049	Piping	RF95A Summary Report
2-1146	NX 8501	Replaced existing relief valve MS-RV-3C with spare S/N N63790-00-0124	Piping	RF95A Summary Report
2-1147	RX 7401	Replaced Dragon valve IR-84-V-3B sown on Dwg D-220-15.0-PED-I-0563	Tubing	See Note 1
2-1154	LE 7001	Replaced valve MS-V-20	Piping	RF95A Summary Report
2-1155	MF 9801	Replaced pipe nipple for drain line from DCW-HX-1A2	Piping	See Note 1
2-1156	MF 9901	Replaced pipe nipple between valve SW-V-196 and DCW-HX-1B1	Piping	See Note 1
2-1157	TY 8001	Replaced existing relief valve MS-RV-2B with spare S/N N63790-00-0050	Piping	RF95A Summary Report
2-1158	TY 7901	Refurbished and reinstalled MS-RV-2D, S/N N63790-00-0138	Relief Valve	RF95A Summary Report
2-1159	ST 7601	Replaced Local Power Range Monitoring (LPRM) in core assemblies	RPV	RF95A Summary Report
2-1162	NY 1601	Replaced piping shown on Dwgs SW-1039-1 and SW-1040-4	Piping	RF95A Summary Report
2-1163	PD 5703	Replaced valves CSP-V-1 and CSP-V-2	Piping	RF95A Summary Report
2-1164	PD 5803	Modified inboard valve flange for valve CSP-V-6	Piping	RF95A Summary Report
2-1165	PD 5803	Modified connection with valves CSP-V-800/21 and CSP-V-800/22	Piping	See Note 1
2-1166	PD 5803	Replaced valves CEP-V-3A and CEP-V-4A	Piping	RF95A Summary Report
2-1167	PD 5803	Modified connection with valves CEP-V-800/9 and CEP-V-800/10	Piping	See Note 1
2-1168	PD 5803	Modified tubing for D-220-031.0-IR-63, bulk head 10	Tubing	See Note 1
2-1169	PF 67/70	Modified piping for RWCU-FT-15 and RWCU-FT-16	Piping	See Note 1
2-1170	PF 67/70	Modified tubing for RWCU-FT-15 and RWCU-FT-16	Tubing	See Note 1
2-1171	ST 0601	Modified drain line with valves MS-V-119A and MS-V-238A	Piping	See Note 1
2-1172	ST 0601	Modified drain line with valves MS-V-119C and MS-V-238C	Piping	See Note 1
2-1173	ST 0601	Modified drain line with valves MS-V-119D and MS-V-238D	Piping	See Note 1
2-1179	NP 3103	Installed new support RCIC-1484-15	Piping	See Note 1
2-1180	MX 0601	Cut and rewelded pump RCIC-P-3 suction line for alignment	Piping	RF95A Summary Report
2-1181	MT 3301	Refurbished and reinstalled MS-RV-2C, S/N N63790-00-0122	Relief Valve	RF95A Summary Report
2-1182	NY 1501	Installed tubing for CIA supply to valve MS-V-22A	Tubing	See Note 1
2-1183	NY 1502	Installed tubing for CIA supply to valve MS-V-22B	Tubing	See Note 1
2-1184	NY 1503	Installed tubing for CIA supply to valve MS-V-22C	Tubing	See Note 1

PLAN NO	WO NO	COMPONENT NUMBER / WORK DESCRIPTION	DESC OF COMP	R&R REPORTED IN
2-1185	NY 1504	Installed tubing for CIA supply to valve MS-V-22D	Tubing	See Note 1
2-1186	NY 1505	Installed tubing for CAS supply to valve MS-V-28A	Tubing	See Note 1
2-1187	NY 1506	Installed tubing for CAS supply to valve MS-V-28B	Tubing	See Note 1
2-1188	NY 1507	Installed tubing for CAS supply to valve MS-V-28C	Tubing	See Note 1
2-1189	NY 1508	Installed tubing for CAS supply to valve MS-V-28D	Tubing	See Note 1
2-1190	UC 6901	Fabricated tube plugs for heat exchangers RWCU-HX-2A and 2B	Heat Exchanger	RF95A Summary Report
2-1191	KA 4501	Replaced bonnet and disc assembly for valve RCIC-V-19	Valve	RF95A Summary Report
2-1192	UC 2501	Replaced disc insert and/or nozzle for relief valve S/N N63790-00-0134	Relief Valve	RF95A Summary Report
2-1195	LG 4301	Replaced stem disc assembly for valve HPCS-V-54	Valve	See Note 1
2-1196	LG 4501	Replaced stem disc assembly for valve HPCS-V-55	Valve	See Note 1
2-1199	KY 0501	Replaced valve SW-V-22B	Piping	See Note 1
2-1200	CB 4301	Replaced existing relief valve MS-RV-1B with new S/N N63790-01-0140	Piping	RF95A Summary Report
2-1201	UC 2505	Replaced existing relief valve MS-RV-1D with new S/N N63790-00-0134	Piping	RF95A Summary Report
2-1202	UN 0901	Machined surface defects on disc seating surface for valve DCW-V-15	Valve	RF95A Summary Report
2-1203	US 1601	Made body to bonnet seal weld for valve PSR-V-X83/1	Valve	RF95A Summary Report
2-1204	UV 7601	Replaced disc for valve CIA-V-21	Valve	See Note 1
2-1206	PD 5803	Removed and reinstalled valve CSP-V-702	Piping	RF95A Summary Report
2-1213	UW 9003	Replaced valve PSR-V-X77A/2	Piping	See Note 1
2-1214	LG 4101	Machined surface defects on disc seating surface for valve HPCS-V-21	Valve	RF95A Summary Report
2-1215	LG 4201	Machined surface defects on disc seating surface for valve HPCS-V-22	Valve	RF95A Summary Report
2-1216	NY 1506	Installed new support CAS-3088-24 for CAS supply to MS-V-28B	Piping	See Note 1
2-1217	UW 9003	Removed and reinstalled support for valve PSR-V-X77A/2	Piping	RF95A Summary Report
2-1220	VA 6501	Cut and rewelded socket welds associated with valve PI-EFC-X66	Tubing	RF95A Summary Report
2-1225	UN 3701	Replaced bolting material for RWCU-FE-11 bolted flanged joint	Piping	RF95A Summary Report
2-1226	VH 6501	Machined hardfaced seating surfaces on the disc for valve RHR-V-53B	Valve	RF95A Summary Report
2-1227	VL 6003	Repaired diaphragm weld for heat exchanger RWCU-HX-1B	Heat Exchanger	RF95A Summary Report
N/A	RW 4101	Replaced snubber for support MSRV-5B-3	Support	RF95A Summary Report

Note 1 NIS-2 form not required. Replacement work for one (1) inch nominal pipe size (NPS) and smaller.

PLAN No 2-0977

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/21/95
Address: 3000 George Washington Way, Richland, Washington **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA
(b) Repair Organization P.O. No; Job No, etc.: Washington Public Power Supply System (WPPSS)
4. Identification Of System: Process Instrument (PI) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 3, 1974 Edition with Winter 1975 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
PI(1)-ST-(SW-SR-43)-A	JCI	PI(1)-ST-(SW-SR-43)-A	N/A	N/A	1983	Repair	No, Code Class 3

7. Description Of Work Performed: Replaced valve PI-V-913. The replacement work was performed as follows
1) Cut existing socket weld to facilitate installation of new valve
2) Installed new valve
3) Made required socket weld

Note - This ASME Section XI plan was issued prior to the second ten (10) year interval Inservice Inspection (ISI) program plan. The plan was implemented in accordance with ASME Section XI, 1980 Edition with Winter 1980 Addenda requirements

PLAN No 2-0977

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None

Test Pressure: Psig **Test Temperature:** °F

Component Design Pressure: Psig **Temperature:** °F

9. Remarks: See attached NPV-1 Code Data Report for the new valve PI-V-913, Serial No GT 1346

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair *conforms to the rules of the ASME Code, Section XI*

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh *Signed By* _____

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/21/95 *Date* 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 2-14-94 *to* 6-21-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

Carl F. Jones *Commissions* NB 9318 W A, N, I

Inspector's Signature — National Board, State, and Endorsements

Date 6-22-95

PLAN NO. 2-0977

WBG BR 215-14029

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

Rudolf Suyes 6/20/95

1. Manufactured by DRAGON VALVES, INC. • 13457 Excelsior Drive • Norwalk, CA. 90650 Order No. N17709R SUPPL. #5
(Name & Address of Manufacturer)

2. Manufactured for WSH/BOECON/GERI, Richland, Washington 99352 Order No. 215-15410
(Name and Address)

3. Owner Washington Public Power Supply System, Hanford Jobsite No. 2

4. Location of Plant Richland, Washington

5. Pump or Valve Identification Serial Numbers GT1341 thru GT1365 (25 Pcs.)

1/2 Inch FNPT Instrument Globe Valves. Part Number 500FN057D1.
(Brief description of service for which equipment was designed)

(a) Drawing No. 12997 Prepared by Dragon Valves, Inc.

(b) National Board No. ----

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Pressure Class _____ (1)

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 2

Edition 1974, Addenda Date 6-30-76, Case No. _____

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	None			
	PI-V-913, S/N GT 1346			
(b) Forgings				
	Body HT 76285	SA182 Gr. F316	Ajax Forge Co.	

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 3a and 3b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

8

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	None			
(d) Other Parts -				
Bonnet	HT 8643313	SA479 TY 316	Republic Steel Corp.	
Disc	HT 1810-3-1062	Stellite No. 6	Cabot Corp. Stellite Div.	
Union Nut	HT 11684	SA479 TY 316	Carpenter Technology Corp.	

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at WSH/BOECON/CERI

Stress analysis report on file at not applicable

Design specifications certified by David J. Murphy (1) Prof. Eng. State WA Reg. No. 12542

Stress analysis report certified by not required (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date December 11, 1978 Signed DRAGON VALVES, INC. (Manufacturer) By W. O. Dragon

Certificate of Authorization No. N-1033 expires May 6, 1981

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 12-11-1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12-11-1978

J. S. Wasem (Inspector) Commissions Cal. 857 (National Board, State, Province and No.)

PLAN No 2-0995

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/19/95
   Address: 3000 George Washington Way, Richland, Washington **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
4. **Identification Of System:** Reactor Recirculation Cooling (RRC) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
* Spare Stuffing Box	Bingham Willamette	B 2 1034	134	N/A	1974	Repair	No, Code Class 1

7. **Description Of Work Performed:** Drilled and tapped holes in the spare stuffing box previously removed from pump RRC-P-1A. The work was performed as follows
   1) Drilled and tapped sixteen (16) additional 1/2" bolt holes in the spare stuffing box
   2) Drilled and tapped sixteen (16) additional 3/4" bolt holes in the spare stuffing box
   3) Drilled and tapped existing sixteen (16) 5/8" bolt holes to 3/4" bolt holes in the spare stuffing box

Note No 1 - * The spare stuffing box previously removed from pump RRC-P-1A
Note No 2 - This ASME Section XI plan was issued prior to the second ten (10) year interval Inservice Inspection (ISI) program plan. The plan was implemented in accordance with ASME Section XI, 1980 Edition with Winter 1980 Addenda requirements

PLAN No 2-0995

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None
Test Pressure: Psig
Component Design Pressure: Psig
Test Temperature: ° F
Temperature: ° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Signed By _____
Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection
Date 6/20/95 — Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3-15-95 to 6-20-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F. Jones — Commissions VB9318 W A, N, I
Inspector's Signature — National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1067

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 6/19/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Containment Vacuum Breaker (CVB) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 2, 1974 Edition with Summer 1975 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
CVB-V-1GH *	Anderson Greenwood	VB 7894	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. **Description Of Work Performed:** Replaced rear snubber for Containment Vacuum Breaker (CVB) valve CVB-V-1GH. The replacement work was performed as follows
   1) Removed rear snubber from the valve
   2) Installed new rear snubber for the valve

Note - * ASME Section III, Code Class 2 for the valve and ASME Section III, Code Class NF(1) for the snubber. ASME Section III, Code Class NF(1) snubber for ASME Section III, Code Class NF(2) application

PLAN No 2-1067

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Signed By _____

Kuldip Singh / Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 — Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-25-95 to 6-20-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

_____ Commissions NB 9318 W A,N,I

Inspector's Signature — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1068

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/19/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Containment Vacuum Breaker (CVB) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 2, 1974 Edition with Summer 1975 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
CVB-V-1ST *	Anderson Greenwood	VB 7899	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. **Description Of Work Performed:** Replaced rear snubber for Containment Vacuum Breaker (CVB) valve CVB-V-1ST. The replacement work was performed as follows
   1) Removed rear snubber from the valve
   2) Installed new rear snubber for the valve

Note - * ASME Section III, Code Class 2 for the valve and ASME Section III, Code Class NF(1) for the snubber. ASME Section III, Code Class NF(1) snubber for ASME Section III, Code Class NF(2) application

PLAN No 2-1068

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Signed By _____

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 — Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-25-95 to 6-20-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

_____ Commissions NB 9318 W A,N,I

Inspector's Signature — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/16/95
Address: 3000 George Washington Way, Richland, Washington **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA
(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
4. Identification Of System: Main Steam (MS) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 1, 1971 Edition with no Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0054	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced nozzle and inlet studs for spare main steam relief valve, Serial No N63790-00-0054. The replacement work was performed as follows

1) Removed existing nozzle from the valve
2) Installed refurbished nozzle in the valve. The nozzle was previously refurbished in accordance with ASME Section XI Plan No 2-0888
3) Installed two (2) new studs for the valve inlet joint

Note - This ASME Section XI plan was issued prior to the second ten (10) year interval Inservice Inspection (ISI) program plan. The plan was implemented in accordance with ASME Section XI, 1980 Edition with Winter 1980 Addenda requirements

PLAN No 2-1104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ **Pneumatic** ☐ **Nominal Operating Pressure** ☐ **Other** ☒ None

Test Pressure: Psig **Test Temperature:** ° F

Component Design Pressure: Psig **Temperature:** ° F

9. Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed in the system under a separate ASME Section XI plan

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh *Signed By* _____

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 *Date* 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 9-7-94 *to* 6-19-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

_____ *Commissions* NB 9318 W A.N.I

Inspector's Signature — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/16/95
   Address: 3000 George Washington Way, Richland, Washington **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1; 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0049	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced disc insert and nozzle for spare main steam relief valve, Serial No N63790-00-0049. The replacement work was performed as follows
   1) Removed existing disc insert and nozzle from the valve
   2) Installed new disc insert and refurbished nozzle in the valve. The nozzle was previously refurbished in accordance with ASME Section XI Plan No 2-0888

Note - This ASME Section XI plan was issued prior to the second ten (10) year interval Inservice Inspection (ISI) program plan. The plan was implemented in accordance with ASME Section XI, 1980 Edition with Winter 1980 Addenda requirements

PLAN No 2-110

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig **Test Temperature:** °F

Component Design Pressure: Psig **Temperature:** °F

9. Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed in the system under a separate ASME Section XI plan

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh *Signed By* _____

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 *Date* 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 9-7-94 *to* 6-19-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F. Jones *Commissions* NB 9318 W A, N, I

Inspector's Signature — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/16/95
Address: 3000 George Washington Way, Richland, Washington **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA
(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
4. Identification Of System: Main Steam (MS) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 1, 1971 Edition with no Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0058	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced disc insert and nozzle for spare main steam relief valve, Serial No N63790-00-0058. The replacement work was performed as follows

1) Removed existing disc insert and nozzle from the valve
2) Installed new disc insert and refurbished nozzle in the valve. The nozzle was previously refurbished in accordance with ASME Section XI Plan No 2-0888

Note - This ASME Section XI plan was issued prior to the second ten (10) year interval Inservice Inspection (ISI) program plan. The plan was implemented in accordance with ASME Section XI, 1980 Edition with Winter 1980 Addenda requirements

PLAN No 2-1106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None
Test Pressure: Psig Test Temperature: °F
Component Design Pressure: Psig Temperature: °F

9. Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed in the system under a separate ASME Section XI plan

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 6/20/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-7-94 to 6-19-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature
Commissions NB 9318 WA A.N.I — National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1107

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/22/95
Address: 3000 George Washington Way, Richland, Washington **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA
(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
4. Identification Of System: Main Steam (MS) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 1, 1971 Edition with no Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0061	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced disc insert and nozzle for spare main steam relief valve, Serial No N63790-00-0061. The replacement work was performed as follows

1) Removed existing disc insert and nozzle from the valve
2) Installed new disc insert and new nozzle in the valve

Note - This ASME Section XI plan was issued prior to the second ten (10) year interval Inservice Inspection (ISI) program plan. The plan was implemented in accordance with ASME Section XI, 1980 Edition with Winter 1980 Addenda requirements

PLAN No 2-1107

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig
Component Design Pressure: Psig
Test Temperature: °F
Temperature: °F

9. Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed in the system under a separate ASME Section XI plan

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By _____ Manager, Materials And Inspection
Date 6/22/95
Date 6/22/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 9-7-94 *to* 6-26-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

_____ Inspector's Signature
Commissions AB9318 W H, N, I — National Board, State, and Endorsements
Date June 26, 1995

PLAN No 2-1108

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/16/95
Address: 3000 George Washington Way, Richland, Washington **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA
(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
4. Identification Of System: Main Steam (MS) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 1, 1971 Edition with no Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0059	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced nozzle for spare main steam relief valve, Serial No N63790-00-0059. The replacement work was performed as follows

1) Removed existing nozzle from the valve
2) Installed refurbished nozzle in the valve. The nozzle was previously refurbished in accordance with ASME Section XI Plan No 2-0888

Note - This ASME Section XI plan was issued prior to the second ten (10) year interval Inservice Inspection (ISI) program plan. The plan was implemented in accordance with ASME Section XI, 1980 Edition with Winter 1980 Addenda requirements

PLAN No 2-1108

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig — **Test Temperature:** ° F

Component Design Pressure: Psig — **Temperature:** ° F

9. Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed in the system under a separate ASME Section XI plan

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection — **Signed By** _____ — Manager, Materials And Inspection

Date 6/20/95 — **Date** 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 9-7-94 *to* 6-19-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

_____ — Inspector's Signature

Commissions NB9318 W A.N.I — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1110

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/19/95
   Address: 3000 George Washington Way, Richland, Washington **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
4. **Identification Of System:** Floor Drains Radioactive (FDR) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1974 Edition with Summer 1975 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
FDR-V-192	Borg Warner	24851	N/A	N/A	1978	Repair	Yes, Code Class 1

7. **Description Of Work Performed:** Made body to bonnet seal weld for valve FDR-V-192. The work was performed as follows
   1) Cut valve body to bonnet seal weld
   2) Removed valve internals for troubleshooting
   3) Prepped cut/ground areas on the valve body and the bonnet
   4) Performed PT examination on the final valve body and the bonnet prepped surfaces. PT examination results acceptable
   5) Machined disc seating surface
   6) Performed PT examination on the final machined disc seating surface. PT examination results acceptable
   7) Reinstalled valve internals and the bonnet
   8) Made valve body to bonnet seal weld
   9) Performed PT examination on the final seal weld. PT examination results acceptable
   10) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

Note - This ASME Section XI plan was issued prior to the second ten (10) year interval Inservice Inspection (ISI) program plan. The plan was implemented in accordance with ASME Section XI, 1980 Edition with Winter 1980 Addenda requirements

PLAN No 2-1110

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [X] Other [ ] None

Test Pressure: 124 Psig
Component Design Pressure: 3600 Psig
Test Temperature: 77° F
Temperature: 100° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 6/20/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 9-12-94 to 6-20-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature
Commissions NB 9318 W A N.I — National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1113

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, Washington, 99352
Date: 6/16/95
Sheet: 1 of 1
Unit: WNP-2

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
Address: Hanford Reservation, Benton County, Washington

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable

4. Identification Of System: Main Steam (MS) System

5. (a) Applicable Construction Code: ASME Section III, Code Class 1, 1971 Edition with no Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None

6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0124	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced disc insert and nozzle for spare main steam relief valve, Serial No N63790-00-0124. The replacement work was performed as follows

1) Removed existing disc insert and nozzle from the valve
2) Installed new disc insert and refurbished nozzle in the valve. The nozzle was previously refurbished in accordance with ASME Section XI Plan No 2-0888
3) Performed VT-3 visual examination on the exposed surfaces of the existing inlet studs. VT-3 visual examination results acceptable
4) Performed VT-3 visual examination on the exposed surfaces of the existing body to bonnet studs. VT-3 visual examination results acceptable
5) Performed VT-3 visual examination on the existing body to bonnet nuts. VT-3 visual examination results acceptable

PLAN No 2-1112

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [ ] **Nominal Operating Pressure** [ ] **Other** [X] **None**

Test Pressure: Psig **Test Temperature:** ° F

Component Design Pressure: Psig **Temperature:** ° F

9. Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed in the system under a separate ASME Section XI plan

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh *Signed By* [signature]

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 *Date* 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 1-23-95 *to* 6-19-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] *Commissions* NB 9318 W A, N, I

Inspector's Signature — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1114

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/16/95
Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Main Steam (MS) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 1, 1971 Edition with no Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0056	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Refurbished spare main steam relief valve, Serial No N63790-00-0056. The refurbishment work was performed as follows

1) Reinstalled existing disc insert and nozzle in the valve
2) Performed VT-3 visual examination on the exposed surfaces of the existing inlet studs. VT-3 visual examination results acceptable
3) Performed VT-3 visual examination on the exposed surfaces of the existing body to bonnet studs. VT-3 visual examination results acceptable
4) Performed VT-3 visual examination on the existing body to bonnet nuts. VT-3 visual examination results acceptable

PLAN No 2-1114

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig — **Test Temperature:** °F

Component Design Pressure: Psig — **Temperature:** °F

9. Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed in the system under a separate ASME Section XI plan

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement **conforms to the rules of the ASME Code, Section XI**

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection **Signed By** [signature] — Manager, Materials And Inspection

Date 6/20/95 **Date** 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington **and employed by** Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts **have inspected the components described in this Owner's Report during the period** 1-23-95 **to** 6-19-95 **and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI**

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature **Commissions** NB 9318 W A,N,I — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1115

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/16/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0050	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced disc insert and nozzle for spare main steam relief valve, Serial No N63790-00-0050. The replacement work was performed as follows
   1) Removed existing disc insert and nozzle from the valve
   2) Installed new disc insert and refurbished nozzle in the valve. The nozzle was previously refurbished in accordance with ASME Section XI Plan No 2-0888
   4) Installed one (1) new stud for the valve inlet joint
   5) Performed VT-3 visual examination on the exposed surfaces of the existing inlet studs. VT-3 visual examination results acceptable
   6) Performed VT-3 visual examination on the exposed surfaces of the existing body to bonnet studs. VT-3 visual examination results acceptable
   7) Performed VT-3 visual examination on the existing body to bonnet nuts. VT-3 visual examination results acceptable

PLAN No 2-1115

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig **Test Temperature:** °F

Component Design Pressure: Psig **Temperature:** °F

9. Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed in the system under a separate ASME Section XI plan

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection *Signed By* [signature] — Manager, Materials And Inspection

Date 6/20/95 *Date* 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 4-3-95 *to* 6-19-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

[signature] — Inspector's Signature *Commissions* NB 9318 W A,N,I — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1126

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1: Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/15/95
Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: C30893
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Containment Electrical Penetration No X-101A
5. (a) Applicable Construction Code: ASME Section III, Code Class MC, 1971 Edition with Summer 1972 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-236
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Containment Electrical Penetration No X-101A	PDM	Containment Vessel	790	N/A	1982	Replacement	Yes, Code Class MC

7. Description Of Work Performed: Installed module for Electrical Penetration No X-101A, Position No 2. The replacement work was performed as follows

1) Removed the existing module from Electrical Penetration No X-101A, Position No 2
2) Installed new module in Electrical Penetration No X-101A, Position No 2
3) Performed pressure test on the Electrical Penetration No X-101A to modules "O" ring joint - One (1) outboard joint for Position No 2 to confirm pressure boundary integrity. Leakage was observed during the pressure test and was evaluated to be acceptable based on the LLRT test results

PLAN No 2-1126

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] LLRT
Test Pressure: 38.8 Psig
Component Design Pressure: 45 Psig
Test Temperature: 75.6° F
Temperature: 340° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 6/20/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1-17-95 to 6-16-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature
Commissions NB9318 W A,N,E — National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1127

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 6/15/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Containment Electrical Penetration No X-101A
5. **(a) Applicable Construction Code:** ASME Section III, Code Class MC, 1971 Edition with Summer 1972 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-236
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Containment Electrical Penetration No X-101A	PDM	Containment Vessel	790	N/A	1982	Replacement	Yes, Code Class MC

7. **Description Of Work Performed:** Installed module for Electrical Penetration No X-101A, Position No 3. The replacement work was performed as follows
   1) Removed the existing module from Electrical Penetration No X-101A, Position No 3
   2) Installed new module in Electrical Penetration No X-101A, Position No 3
   3) Performed pressure test on the Electrical Penetration No X-101A to modules "O" ring joint - One (1) outboard joint for Position No 3 to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-1127

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] LLRT

Test Pressure: 38.8 Psig
Component Design Pressure: 45 Psig
Test Temperature: 75.6° F
Temperature: 340° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 6/20/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1-17-95 to 6-16-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

[signature]
Inspector's Signature
Commissions NB 9318 W A,N,I
National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1128

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, Washington, 99352
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: C30893
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Containment Electrical Penetration No X-101C
5. (a) Applicable Construction Code: ASME Section III, Code Class MC, 1971 Edition with Summer 1972 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-236
6. Identification Of Components Repaired Or Replaced And Replacement Components

Date: 6/15/95
Sheet: 1 of 1
Unit: WNP-2

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Containment Electrical Penetration No X-101C	PDM	Containment Vessel	790	N/A	1982	Replacement	Yes, Code Class MC

7. Description Of Work Performed: Installed module for Electrical Penetration No X-101C, Position No 1. The replacement work was performed as follows

1) Removed the existing module from Electrical Penetration No X-101C, Position No 1
2) Installed new module in Electrical Penetration No X-101C, Position No 1
3) Performed pressure test on the Electrical Penetration No X-101C to modules "O" ring joint - One (1) outboard joint for Position No 1 to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-1128

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] LLRT
Test Pressure: 38.8 Psig
Component Design Pressure: 45 Psig
Test Temperature: 74.4° F
Temperature: 340° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By ____ — Manager, Materials And Inspection
Date 6/20/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1-20-95 to 6-16-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F James — Inspector's Signature
Commissions NB9318 W A,N,I — National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1129

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/16/95
Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: C30893
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Containment Electrical Penetration No X-101D
5. (a) Applicable Construction Code: ASME Section III, Code Class MC, 1971 Edition with Summer 1972 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-236
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Containment Electrical Penetration No X-101D	PDM	Containment Vessel	790	N/A	1982	Replacement	Yes, Code Class MC

7. Description Of Work Performed: Installed module for Electrical Penetration No X-101D, Position No 1. The replacement work was performed as follows

1) Removed the existing module from Electrical Penetration No X-101D, Position No 1
2) Installed new module in Electrical Penetration No X-101D, Position No 1
3) Performed pressure test on the Electrical Penetration No X-101D to modules "O" ring joint - One (1) outboard joint for Position No 1 to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-1129

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ LLRT
Test Pressure: 38.7 Psig
Component Design Pressure: 45 Psig
Test Temperature: 76.6° F
Temperature: 340° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By CMK — Manager, Materials And Inspection
Date 6/20/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1-20-95 to 6-16-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F Jones — Inspector's Signature
Commissions NB 9318 W A, N, I — National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1130

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

Date: 6/16/95
Sheet: 1 of 1
Unit: WNP-2

1. **Owner:** Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, Washington, 99352
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Containment Electrical Penetration No X-101D
5. **(a) Applicable Construction Code:** ASME Section III, Code Class MC, 1971 Edition with Summer 1972 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-236
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Containment Electrical Penetration No X-101D	PDM	Containment Vessel	790	N/A	1982	Replacement	Yes, Code Class MC

7. **Description Of Work Performed:** Installed module for Electrical Penetration No X-101D, Position No 2. The replacement work was performed as follows
   1) Removed the existing module from Electrical Penetration No X-101D, Position No 2
   2) Installed new module in Electrical Penetration No X-101D, Position No 2
   3) Performed pressure test on the Electrical Penetration No X-101D to modules "O" ring joint - One (1) outboard joint for Position No 2 to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-113

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] LLRT

Test Pressure: 38.7 Psig
Component Design Pressure: 45 Psig
Test Temperature: 76.1° F
Temperature: 340° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 6/20/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1-23-95 to 6-16-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

[signature]
Inspector's Signature
Commissions NB 9318 W A,N,I
National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1132

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

Date: 6/15/95
Sheet: 1 of 1
Unit: WNP-2

1. **Owner:** Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, Washington, 99352
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Containment Electrical Penetration No X-100B
5. **(a) Applicable Construction Code:** ASME Section III, Code Class MC, 1971 Edition with Summer 1972 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-236
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Containment Electrical Penetration No X-100B	PDM	Containment Vessel	790	N/A	1982	Replacement	Yes, Code Class MC

7. **Description Of Work Performed:** Installed module for Electrical Penetration No X-100B, Position No 3. The replacement work was performed as follows
   1) Removed the existing module from Electrical Penetration No X-100B, Position No 3
   2) Installed new module in Electrical Penetration No X-100B, Position No 3
   3) Performed pressure test on the Electrical Penetration No X-100B to modules "O" ring joint - One (1) outboard joint for Position No 3 to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-1132

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [ ] **Nominal Operating Pressure** [ ] **Other** [X] LLRT

Test Pressure: 38.7 Psig
Component Design Pressure: 45 Psig
Test Temperature: 74.1° F
Temperature: 340° F

9. Remarks: See attached N-2 Code Data Report for the Electrical Penetration assembly Serial No 780609, National Board No W16797

Notes -

1) The new module for WNP-2 Electrical Penetration X-100B was from WNP-1 ASME NPT Code Stamped Electrical Penetration assembly Serial No 780609, National Board No W16797
2) Component design pressure of 45 Psig and design temperature of 340° F is based on the N-1 Code Data Report issued by PDM for the WNP-2 Containment Vessel

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement **conforms to the rules of the ASME Code, Section XI**
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh **Signed By**
Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 **Date** 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington **and employed by** Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts **have inspected the components described in this Owner's Report during the period** 1-19-95 **to** 6-16-95 **and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI**
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Inspector's Signature **Commissions** NB 9318 W A,N,I
National Board, State, and Endorsements

Date 6-22-95

FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provisions of the ASME Code Rules

PLAN NO. 2-1132
Rudolf Swoboda
6/14/95

1. (a) Manufactured by Westinghouse Electric Corp., Westinghouse Circle, Horseheads, NY 14845
(Name and address of Manufacturer of part)

(b) Manufactured for Washington Public Power Supply System, Hanford, Wash.
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part 780609 Nat'l Bd. No. W16797

(a) Constructed According to Drawing No. E40106 J Drawing Prepared by R. L. Korner

(b) Description of Part Inspected Electrical Penetration Assembly

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date Summer 75, Case No. N/A Class M.C.

3. Remarks: This device when welded to the containment nozzle provides 3 sockets for the penetration modules. Together these parts complete the pressure boundary of the containment.
(Brief description of service for which component was designed)

Rudolf
5/25/94

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenance Manufacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date July 25, 1978 Signed Westinghouse Elec. Corp. By J. B. Kessing
(Manufacturer)

Certificate of Authorization Expires August 4, 1978 Certificate of Authorization No. 1190

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Washington Public Power Supply System, Hanford, Wash.

Stress analysis report on file at Westinghouse Electric Corp., Westinghouse Circle, Horseheads, NY

Design specifications certified by Burton Nemroff Prof. Eng. State Wash. Reg. No. 15344

Stress analysis report certified by Michael Yonko Prof. Eng. State N.Y. Reg. No. 44063

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of New York and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on July 27, 1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date July 27, 1978

L. E. Wanner
Inspector's Signature

Commissions NB 6786 PAVC 1907
National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-3 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

FORM N-2 (back) S/N 780609 Rulon 6/1/94

Items 4–8 Incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA333 GR 6 T.S. 60,000 (Kind & Spec. No.) (Min. of Range Specified) Nominal Thickness .406 in. Corrosion Allowance ___ in. Dia. ___ ft. 12 in. Length 0 ft. 7 [redacted]

5. Seams: Long Seamless H.T.[1] ___ R.T. ___ Efficiency ___ %

Girth ___ H.T.[1] ___ R.T. ___ No. of Courses ___

6. Heads: (a) Material SA240-Type 304 T.S. 75000 (b) Material ___ T.S. ___

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a) END	1.5						12.2"	
(b) NONE								

If removable, bolts used SA193-B7 1/2-13 6 Req. (Material, Spec. No., T.S., Size, Number) Other fastening SA193-B7 5/8-11 - 1 Req. (Describe or attach sketch)

7. Jacket Closure: ___ (Describe as ogee and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure[2] INTERNAL 52 psi at 284 °F Drop Weight ___ Charpy Impact ___ ft-lb at temp. of ___ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material ___ (Kind & Spec. No.) Dia. ___ (Subject to pressure) Thickness ___ in. Attachment ___ (Welded, Bolted)

Floating. Material ___ Dia. ___ Thickness ___ in. Attachment ___

10. Tubes: Material ___ O.D. ___ in. Thickness ___ Inches or gage. Number ___ Type ___ (Str. or U)

Items 11–14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material ___ (Kind & Spec. No.) T.S. ___ (Min. of Range Specified) Nominal Thickness ___ in. Corrosion Allowance ___ in. Dia. ___ ft. ___ in. Length ___ ft. ___ [redacted]

12. Seams: Long ___ H.T.[1] ___ R.T. ___ Efficiency ___ %

Girth ___ H.T.[1] ___ R.T. ___ No. of Courses ___

13. Heads (a) Material ___ T.S. ___ (b) Material ___ T.S. ___

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a) Top, bottom, ends								
(b) Channel								

If removable, bolts used (a) ___ (b) ___ (c) ___ Other fastening ___ (Describe or attach sketch)

14. Design pressure[2] [illegible] psi at ___ °F Drop Weight ___ Charpy Impact ___ ft-lb at temp. of ___ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number ___ Size ___ Location ___

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
INLET	1	1/4		SA213 TYPE 304			WELDED

17. Inspection Manholes, No. ___ Size ___ Location ___

Openings: Handholes, No. ___ Size ___ Location ___

Threaded, No. ___ Size ___ Location ___ [redacted]

18. Supports: Skirt ___ (Yes or No) Lugs ___ (Number) Legs ___ (Number) Other ___ (Describe) Attached ___ (Where & How)

[1] If Postweld Heat-Treated.
[2] List other internal or external pressure with coincident temperature when applicable.

Printed in U.S.A. (1/72) This form (E40) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

PLAN No 2-1136

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/19/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Standby Liquid Control (SLC) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1972 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
SLC-V-4A	Conax	N/A	91	N/A	1975	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced parts for valve SLC-V-4A. The replacement work was performed as follows
   1) Removed existing trigger body assembly from the valve
   2) Installed new trigger body assembly in the valve
   3) Removed existing inlet fitting from the valve
   4) Installed new inlet fitting in the valve
   5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-1136

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ **Pneumatic** ☐ **Nominal Operating Pressure** ☒ **Other** ☐ **None**

Test Pressure: 1150/1220 Psig **Test Temperature:** 80.4/87° F

Component Design Pressure: 1400 Psig **Temperature:** 150° F

9. Remarks: 1) See attached N-2 Code Data Reports for following new valve parts

Valve Part	Serial No
Trigger body assembly	4209
Inlet fitting	4211

2) Nominal operating pressure test on the down stream side of the valve (RPV Side) - test pressure of 1150 Psig and test temperature of 80.4° F

3) Nominal operating pressure test on the up stream side of the valve (SLC-P-1A Side) - test pressure of 1220 Psig and test temperature of 87° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement **conforms to the rules of the ASME Code, Section XI**

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh **Signed By** 6/21/95

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 **Date** 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington **and employed by** Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts **have inspected the components described in this Owner's Report during the period** 3-10-95 **to** 6-20-95 **and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI**

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Inspector's Signature

Commissions NB9318 (W) A,N,I

National Board, State, and Endorsements

Date 6-22-95

PLAN NO. Z-1156

FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III, Division 1

Not To Exceed One Day's Production

Rudolph Scrupb 6/14/95

1. Manufactured and certified by Conax Buffalo Corporation, 2300 Walden Ave., Cheektowaga, NY 14225 (name and address of certificate holder)

2. Manufactured for Washington Public Power Supply, Richland, WA (name and address of purchaser)

3. Location of installation WNP-2, Richland, WA (name and address)

4. Type

N20000, Rev. F	SA479 304SST	75 KSI	N/A	1993
(drawing no.)	(nat'l spec. no.)	(tensile strength)	(CRN)	(year built)

5. ASME Code, Section III:

77	S77	1	N/A
(edition)	(addenda)	(class)	(Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (No.) Revision _____ Date _____

7. Remarks: Trigger body subassembly for explosive actuated valve replacement kit for standby liquid control system. Para. NB2121 (b) is applicable to ram.

* Pressure tested at 2800 psig for 10 minutes.

8. Nom. thickness (in.) *See Remarks Min. design thickness (in.) _____ Dia. ID (ft. & in.) _____ Length overall (ft. & in.) _____

9. When applicable, Certificate Holders' data reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	4209	4209
(2)	4210	4210
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure 1400 psi Temp. 150 °F. Hydro. test pressure *See Remarks (when applicable) at temp. °F.

*Supplemental information in form of lists, sketches or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 on this data report is included on each sheet, (3) each

FORM N-2 (back)

CERTIFICATE OF DESIGN

Design specifications certified by Clyde T. Nieh P. E. state CA Reg. no. 15587

Design report* certified by Francis J. Domino P. E. state NY Reg. no. 36832
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Trigger Body Subassembly conform to the rules of construction of the ASME Code, Section III.

ASME Certificate of Authorization no. N-1850 Expires September 2, 1995

Date 3/17/93 Name Conax Buffalo Corporation Signed
(NPT Certificate Holder) (authorized representative)
Richard E. Dulski, QA Manager

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of New York and employed by H.S.B.I. & I. Co.
of Hartford, CT have inspected these items described in this data report on Mar 23, 1993 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 3/23/93 Signed Commissions NB 9153 A1
(Authorized Inspector) (Nat'l Bd (incl endorsements) state or prov and no.)

PLAN NO. 2-1136

FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

Rudolf Rupp 6/14/95

As Required by the Provisions of the ASME Code, Section III, Division 1

Not To Exceed One Day's Production

1. Manufactured and certified by Conax Buffalo Corporation, 2300 Walden Ave., Cheektowaga, NY 14225 (name and address of certificate holder)

2. Manufactured for Washington Public Power Supply, Richland, WA (name and address of purchaser)

3. Location of installation WNP-2, Richland, WA (name and address)

4. Type N38017, Rev. F (drawing no.) | SA479 304SST (nat'l spec no.) | 75 KSI (tensile strength) | N/A (CRN) | 1993 (year built)

5. ASME Code, Section III: 77 (edition) | S77 (addenda) | 1 (class) | N/A (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (No.) Revision _____ Date _____

7. Remarks: Inlet fitting for explosive actuated valve replacement kit for standby liquid control system.

* Pressure tested at 2800 psig for 10 minutes.

8. Nom. thickness (in.) .040 Min. design thickness (in.) .031 Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' data reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	4211	4211
(2)	4212	4212
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
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(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
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(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure 1400 psi Temp. 150 °F. Hydro. test pressure *See Remarks (when applicable) at temp. °F.

*Supplemental information in form of lists, sketches or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 on this data report is included on each sheet, (3) each sheet is numbered and number of sheets is recorded at top of this form, and (4) each additional sheet shall be signed by the Certificate Holder [illegible]

FORM N-2 (back)

CERTIFICATE OF DESIGN

Design specifications certified by Clyde T. Nieh P. E. state CA Reg. no. 15587

Design report* certified by Francis J. Domino P. E. state NY Reg. no. 36832
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Inlet Fitting conform to the rules of construction of the ASME Code, Section III.

ASME Certificate of Authorization no. N-1850 Expires September 2, 1995

Date 3/15/93 Name Conax Buffalo Corporation Signed R. E. Dulski
(NPT Certificate Holder) (authorized representative)
Richard E. Dulski, QA Manager

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of New York and employed by H.S.B.I. & I. Co.
of Hartford, CT have inspected these items described in this data report on March 23, 1993 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 3/23/93 Signed [signature] Commissions NB 9153 NY
(Authorized Inspector) (Nat'l Bd (incl. endorsements) state or prov. and no.)

PLAN No 2-1137

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, Washington, 99352
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
Address: Hanford Reservation, Benton County, Washington

Date: 6/15/95
Sheet: 1 of 1
Unit: WNP-2

3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: C30893
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Containment Electrical Penetration No X-101C
5. (a) Applicable Construction Code: ASME Section III, Code Class MC, 1971 Edition with Summer 1972 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-236
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Containment Electrical Penetration No X-101C	PDM	Containment Vessel	790	N/A	1982	Replacement	Yes, Code Class MC

7. Description Of Work Performed: Installed module for Electrical Penetration No X-101C, Position No 2. The replacement work was performed as follows

1) Removed the existing module from Electrical Penetration No X-101C, Position No 2
2) Installed new module in Electrical Penetration No X-101C, Position No 2
3) Performed pressure test on the Electrical Penetration No X-101C to modules "O" ring joint - One (1) outboard joint for Position No 2 to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-1137

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] LLRT

Test Pressure: 38.8 Psig
Component Design Pressure: 45 Psig
Test Temperature: 74.4° F
Temperature: 340° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Signed By _____
Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection
Date 6/20/95 — Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 1-20-95 to 6-16-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F [illegible] — Commissions NB9318 W A,N,I
Inspector's Signature — National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1139

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001C	WPPSS	B22-G001C-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-1C	Crosby	N63790-00-0046	N/A	N/A	1981	Replaced	Yes, Code Class 1
MS-RV-1C	Crosby	N56000-01-0100*	N/A	N/A	1976	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced existing relief valve MS-RV-1C. The replacement work was performed as follows
   1) Removed existing relief valve MS-RV-1C, Serial No N63790-00-0046 with set pressure of 1165 Psig at rated temperature of 575° F
   2) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
   3) Installed replacement relief valve with Serial No N56000-01-0100* with set pressure of 1165 Psig at rated temperature of 575° F
   4) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint
   5) Reinstalled existing studs for the relief valve inlet joint without performing VT-3 visual examination - See PER No 295-0796
   6) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   7) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   8) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   9) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   10) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -
1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with Summer 1972 Addenda for the "Bailly" relief valve based on NV-1 Code Data Report for Serial No N56000-01-0100
4) * "Bailly" relief valve Serial No N56000-01-0100 was modified by Crosby to Serial No N63790-00-0139
5) Year built 1976 is based on NV-1 Code data Report for Serial No N56000-01-0100

PLAN No 2-1139

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ **Pneumatic** ☐ **Nominal Operating Pressure** ☒ **Other** ☐ **None**

Test Pressure: 1023 Psig **Test Temperature:** 198.6° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: 1) See attached NV-1 (Pre - Modification) Code Data Report for MSRV, Serial No N56000-01-0100
2) See attached "Repair And Replacement To Nuclear Components And Systems In Nuclear Power Plants" Certification Report (QC 292A) documenting the modification (upgrade) work performed by Crosby for "Bailly" MSRV, Serial No N56000-01-0100
3) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection **Signed By** [signature] — Manager, Materials And Inspection

Date 8/2/95 **Date** 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 1-17-95 *to* 8-2-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] Inspector's Signature **Commissions** NB9318 9318W A,N,I National Board, State, and Endorsements

Date August 16, 1995

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MA
PLAN NO. 2-1139
Rudolph Engr

Q.C.-292, REV.A
SHEET 1 OF 2

7/78

REPAIR AND REPLACEMENT TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093
(Name and Address)
(Repair organization's P.O. No., Job No., etc.). NV4000020

2. Owner WASHINGTON PUBLIC POWER RICHLAND,WA 99352-0968
(Name and Address)

3. Name and Identification of Nuclear Power Plant HANFORD #2

4. Address of Nuclear Power Plant RICHLAND ,WA

5. a. Identifying Nos. N63790-00-0139 — — ----- 1973
(Mfr's Serial No.) (Nat'l Bd. No.) (Jurisdiction No.) (Other) (Year Built)
b. Identification of component repaired or replacement component —
c. Name of Manufacturer CROSBY VALVE & GAGE COMPANY

6. Tests conducted: Hydrostatic (X) Pneumatic ( ) Design Pressure ( ). Pressure 2370.0 psi

7. Identification of System MAIN STEAM

8. Applicable Section(s) III of ASME Code, 19 71 Edition
Addenda NO Code Case —

9. Description of work N56000-01-0100 WAS MODIFIED TO N63790-00-0139
(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)
ASME SEC.XI,1980 EDITION WINTER 1980 ADDENDA.

10. Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:

PART	PART NO.	MODIFIED TO PART NO.
BODY	N90118	N93183-45-0128
BONNET	N89717	N93407-46-0057
SPINDLE ASSY	K55465	K62873-42-0056
SPR.WASHER	N89724	K62856-46-0205
SPR.WASHER	N89723	K62857-46-0205
SPRING ASSY	K55466	K62858-31-0004

PART	PART NO:	REPLACED WITH
NOZZLE	N89713	N93184-51-0158
DISC INSERT	N89715	N93185-52-0200
THR.BRG,ADAPT.	N89725	N93409-34-0010
ADJ.BOLT	N89726	N93410-36-0139
ADJ.BOLT BUTT, COMMERCIAL		N93411-33-0009
ADJ.BOLT ASSY COMMERCIAL		K63618-31-0002

E 2/23/79

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and all design, material, and workmanship on th
MOD. conforms to the applicable section of the ASME Code.
(repair/replacement)

Signed Lawrence J. Lisa (Authorized Rep. of Repair Organization) QA Eng Manager (Title) 24 Feb (Date), 1994

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual of Norwood, Massachusetts have inspected the repair or replacement described in this report on Feb 25, 1994 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code.

By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Factory Mutual Systems

Date 2/25, 1994.

Signed (Inspector)

Commissions 14615 (Nat'l. Bd., State, Prov. and No.)

PLAN No. 2-1139

Rulaip Singh
7/7/91

WPPSS S/N	WPPSS Set	Bailly S/N	Bailly Set
N63790-00-0134	1175	N56000-01-0037	1175
N63790-00-0135	1205	N56000-01-0099	1130
N63790-00-0136	1205	N56000-02-0043	1205
N63790-00-0137	1195	N56000-02-0042	1195
N63790-00-0138	1185	N56000-01-0038	1175
N63790-00-0139	1165	N56000-01-0100	1130

PLAN NO. 2-1139

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

Rudolf Suit 7/7/75

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules

Q.C.-44C

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, Mass. 02093
HB-65-BP- Name and Address

Model No. FN Order No N-51726 Contract Date 1/27/75 National Board No.

2. Manufactured For General Electric Co., 175 Curtner Ave., San Jose, California 95125 Order No. 205-AD148
Name and Address

3. Owner Northern Indiana Public Service Co., Bailly Generating Station Nuclear I
Name and Address

4. Location of Plant Baileytown, Indiana

5. Valve Identification Spare MPL#B22-F013 Serial No. N56000-01-0100 Drawing No. H-56000 Rev. C

Type Safety Relief (Safety, Safety Relief, Pilot, Power Actuated) Orifice Size R Inch Pipe Size Inch Inlet 6 Inch Outlet 10 Inch

6. Set Pressure (PSIG) 1130 575° F
Rated Temperature

Stamped Capacity 850500#/Hr. Sat. + 3 % Overpressure Blowdown (PSIG) 5%

Hydrostatic Test (PSIG) Inlet 2370 Complete Valve 825

7. The material, design, construction and workmanship comply with ASME Code, Section III.

Class 1 Edition 1971, Addenda Date Summer 1972, Case No.

Pressure Containing or Pressure Retaining Components

	Serial No. Identification	Material Specification Including Type or Grade
a. ~~Castings~~ Forging		
Body	N90118-35-0031	ASTM A105-71 ASME SA105
Bonnet	N89717-36-0086	ASTM A105-71 ASME SA105
b. Bar Stock and Forgings		
~~Disc~~ Disc Insert	N89715-36-0107	ASTM A564-71 Type 630 ASME SA564 Type 630
Nozzle	N89713-33-0051	ASTM A182-71 Type 316 ASME SA182 Type 316
Disc Holder K55484-39-0134	N89714-35-0146 N89724-36-0111	AMS 5662B
Spring Washers K55466-36-0095	N89723-38-0129	ASTM A105-71 ASME SA105
Adjusting Bolt	N89726-40-0133	ASTM A193-71 Gr. B6 ASME SA193 Gr. B6
Spindle K55465-35-0104	N89720-38-0126	ASTM A564 Type 630 ASME SA564 Type 630
Spindle Ball	N89721-0204	Stoody No. 6
Thrust Bearing Adapter	N89725-34-0104	ASTM A193-71 Gr. B6 ASME SA193 Gr. B6

	Serial No. or Identification	Material Specification: Including Type or Grade
c. Spring	N89722-0069	ASTM A304-66
d. Bolting		
e. Other Parts such as Pilot Components		
Inlet Stud	N89727-1215 thru 1226	ASME SA193 Gr. B7
Inlet Nut	N89728-1209 thru 1220	ASME SA194 Gr. 2H
Bonnet Stud	N89718-1234 thru 1245	ASME SA193 Gr. B7
Bonnet Nut	N89719-1228 thru 1239	ASME SA194 Gr. 2H

We certify that the statements made in this report are correct.

Date 6-22 19 76 Signed Crosby Valve & Gage Co. By [signature]
Manufacturer QA Manager

Certificate of Authorization No. 926 expires October 28, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Factory Mutual Systems*, Norwood, Mass. have inspected the equipment described in this Data Report on _____ 19___ and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/22/76

[signature] Commissions [illegible]
Inspector National Board, State, Province and No.

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division.

PLAN No 2-1140

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001A	WPPSS	B22-G001A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-2A	Crosby	N63790-00-0051	N/A	N/A	1981	Replaced	Yes, Code Class 1
MS-RV-2A	Crosby	N63790-00-0054	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced existing relief valve MS-RV-2A. The replacement work was performed as follows
   1) Removed existing relief valve MS-RV-2A, Serial No N63790-00-0051 with set pressure of 1185 Psig at rated temperature of 575° F
   2) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
   3) Installed replacement relief valve with Serial No N63790-00-0054 with set pressure of 1185 Psig at rated temperature of 575° F
   4) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint
   5) Reinstalled existing studs for the relief valve inlet joint without performing VT-3 visual examination - See PER No 295-0796
   6) Installed one (1) new bolt for the relief valve outlet joint
   7) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   8) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   9) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   10) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   11) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -
1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with no Addenda for the relief valve

PLAN No 2-1140

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [X] **Nominal Operating Pressure** [X] **Other** [ ] **None**

Test Pressure: 1023/7.5 Psig **Test Temperature:** 198.6/72° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: 1) See attached NV-1 Code Data Report for MSRV, Serial No N63790-00-0054
2) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F
3) Pneumatic pressure test on the relief valve body to bonnet joint - Test pressure of 7.5 Psig and test temperature of 72° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection *Signed By* [signature] — Manager, Materials And Inspection

Date 8/2/95 *Date* 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 1-17-95 *to* 8-2-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F. Jones — Inspector's Signature *Commissions* NB9318 9318W A,N,I — National Board, State, and Endorsements

Date August 16, 1995

PLAN NO.2-1140 MS-RV-2A

Redrip Engr 6/15/95

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES Q.C.-44D
As Required by the Provisions of the ASME Code Rules

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-65-BP-FN Order No. N94275 Contract Date 4/24/79 National Board No. N/A

2. Manufactured For General Electric Company, 175 Curtner Ave., San Jose, CA 95125 Order No. 205-AJ986
Name and Address

3. Owner Washington Public Power Supply System, Richland, Washington 99352
Name and Address

4. Location of Plant Hanford Reservation, Richland, Washington 99352

5. Valve Identification MPL #B22-F013 Serial No. N63790-00-0054 Drawing No. DS-A-63790 Rev. C

Type Safety Relief Orifice Size R Inch Pipe Size — Inlet 6 Inch Outlet 10 Inch
Safety, Safety Relief, Pilot, Power Actuated

6. Set Pressure (psig) 1185

575° F
Rated Temperature

Stamped Capacity 891,750 @ 3 %Overpressure — Blowdown (psig) 2% to 11%

Hydrostatic Test (psig) Inlet 2370 Outlet 975 psig (Assembled Valve) 1100 psig (Body Only)
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

		Serial No. Identification	Material Specification Including Type or Grade
a.	Bar Stock & Forgings		
	Body	N93183-35-0073	ASTM A105-71 Gr. II ASME SA105 Gr. II
	Bonnet	N93407-35-0036	ASTM A105-71 Gr. II ASME SA105 Gr. II
b.			
	Disc Insert	N93185-34-0086	ASME SA637 Gr. 718
	Nozzle	N93184-33-0058	ASME SA182 Gr. F316
	Disc Holder *K55484-35-0090	*N89714-34-0090	AMS 5662B
	Spring Washers K62858-35-0036	K62856-35-0092 K62857-35-0057	ASTM A105-71 Gr. II ASME SA105 Gr. II
	Adjusting Bolt	N93410-33-0061	ASME SA193 Gr. B6
	Spindle Point K62873-35-0054	*N89720-34-0093	ASTM A564-71 Type 630 ASME SA564 Type 630
c.	Spring K62858-35-0036	NX2689-0117	ASTM A304-66 Gr. 4161H
d.	Bolting		ZX00380137
e.	Spindle Ball K62873-35-0054	N93213-0054	Stellite #6
	Thrust Bearing Adapter	N93409-32-0056	ASME SA193 Gr. B6
	Bonnet Stud (J17)	N93207-0645 thru 0656	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
	Bonnet Stud Nut (J87)	N93210-0865 thru 0876	ASME SA194 Gr. 2H
	Inlet Stud (BW6)	N93216-0647 thru 0658	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
	Inlet Stud Nut (BW8)	N93218-0651 thru 0662	ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
	Adjusting Bolt Button	N93411-33-0063	ASME SA193 Gr. B6

Valve originally built against Crosby Order No. [illegible], Assembly No. [illegible]. This modification consists of replacement of the Disc Insert, Nozzle, Bonnet Stud Nuts, Adjusting Bolt, and Thrust Bearing Adapter, remachining of the Body, Spring Washers, Bonnet, and Spindle Assembly, and adding an Adjusting Bolt Button Assembly. New Serialization is required unless indicated by an asterisk. Original nameplate removed and new nameplate attached.

N-3790-00-0054

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda (Date), Code Case No. 1567 & 1711. Class 1

Date 11-5-80 Signed Crosby Valve & Gage Co. (N Certificate Holder) by R.G. Grauel

Our ASME Certificate of Authorization No. 1878 to use the NV symbol expires September 30, 1983 (Date).

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company

Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company 43 Kendrick Street, Wrentham, Massachusetts 02093

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] W.D. Greenlaw

PE State Massachusetts Reg. No. 14784

[1]Signature not required – list name only.

FOR INFORMATION ONLY

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 11/19, 1980 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11/19 1980

Signed [signature] (Inspector) Commissions MASS 1266 (Nat'l. Bd., State, Prov. and No.)

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.

ZX00380138

PLAN No 2-1141

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001A	WPPSS	B22-G001A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-3A	Crosby	N63790-00-0057	N/A	N/A	1980	Replaced	Yes, Code Class 1
MS-RV-3A	Crosby	N63790-00-0058	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced existing relief valve MS-RV-3A. The replacement work was performed as follows
   1) Removed existing relief valve MS-RV-3A, Serial No N63790-00-0057 with set pressure of 1195 Psig at rated temperature of 575° F
   2) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
   3) Installed replacement relief valve with Serial No N63790-00-0058 with set pressure of 1195 Psig at rated temperature of 575° F
   4) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint
   5) Reinstalled existing studs for the relief valve inlet joint without performing VT-3 visual examination - See PER No 295-0796
   6) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   7) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   8) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   9) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   10) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -
1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with no Addenda for the relief valve

PLAN No 2-1141

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [X] **Nominal Operating Pressure** [X] **Other** [ ] **None**

Test Pressure: 1023/7.5 Psig **Test Temperature:** 198.6/69° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: 1) See attached NV-1 Code Data Report for MSRV, Serial No N63790-00-0058
2) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F
3) Pneumatic pressure test on the relief valve body to bonnet joint - Test pressure of 7.5 Psig and test temperature of 69° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement **conforms to the rules of the ASME Code, Section XI**
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh **Signed By** Carl F. Jones

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 8/2/95 **Date** 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington **and employed by** Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts **have inspected the components described in this Owner's Report during the period** 1-17-95 **to** 8-2-95 **and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI**
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F Jones **Commissions** NB9318 9318W A.N.I.

Inspector's Signature — National Board, State, and Endorsements

Date August 16, 1995

PLAN NO. 2-1141

Rudolf Bung
7/6/81

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As Required by the Provisions of the ASME Code Rules

Q.C.-44D

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-65-BP-FN Order No. N96275 Contract Date 4/24/79 National Board No. N/A

2. Manufactured For General Electric Company, 175 Curtner Ave., San Jose, CA 95125 Order No. 205-AJ986
Name and Address

3. Owner Washington Public Power Supply System, Richland, Washington 99352
Name and Address

4. Location of Plant Hanford Reservation, Richland, Washington 99352

5. Valve Identification MPL #822-F013 Serial No. N63790-00-0058 Drawing No. DS-A-63790 Rev. C

Type Safety Relief (Safety, Safety Relief, Pilot, Power Actuated) Orifice Size R Inch Pipe Size — Inch Inlet 6 Inch Outlet 10 Inch

6. Set Pressure (psig) 1195 575° F (Rated Temperature)

Stamped Capacity 899,185 @ 3 %Overpressure — Blowdown (psig) 2% to 11%

Hydrostatic Test (psig) Inlet 2370 Outlet 975 psig (Assembled Valve) 1100 psig (Body Only)
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

	Serial No. Identification	Material Specification Including Type or Grade
a. Bar Stock & Forgings		
Body	N93183-35-0077	ASTM A105-71 Gr. II ASME SA105 Gr. II
Bonnet	N93407-35-0040	ASTM A105-71 Gr. II ASME SA105 Gr. II
b. [redacted] Disc Insert	N93185-34-0090	ASME SA637 Gr. 7
Nozzle	N93184-33-0062	ASME SA182 Gr. F3A
Disc Holder*K55484-35-0093	*N89714-34-0094	AMS 5662B
Spring Washers K62858-35-0040	K62856-35-0096 K62857-35-0061	ASTM A105-71 Gr. II ASME SA105 Gr. II
Adjusting Bolt	N93410-33-0065	ASME SA193 Gr. B6
Spindle Point K62873-35-0058	*N89720-34-0070	ASTM A564-71 Type 630 ASME SA564 Type 630
c. Spring K62858-35-0040	*N89722-0016	ASTM A304-66 Gr. 4161H
d. Bolting		
e. [redacted] Spindle Ball K62873-35-0058	N93213-0058	Stellite #6
Thrust Bearing Adapter	N93409-32-0060	ASME SA193 Gr. B6
Bonnet Stud (BW5, I17)	N93207-0693 thru 0704	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Bonnet Stud Nut (J87)	N93210-0913 thru 0924	ASME SA194 Gr. 2H
Inlet Stud (BW6)	N93216-0695 thru 0706	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Inlet Stud Nut (BW8)	N93218-0699 thru 0710	ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
Adjusting Bolt Button K63618-33-0067	N93411-33-0067	ASME SA193 Gr. B6

MAB

4 2

FOR INFORMATION ONLY

ZX00382751

S/N N63290-00-005
Kudlip Bros
3/1/89.

Valve originally built against Crosby Order No. N103600, Assembly No. N56000. Valve modification consists of replacement of the Disc Insert, Nozzle, Bonnet Stud Nuts, Adjusting Bolt, and Thrust Bearing Adapter, remachining of the Body, Spring Washers, Bonnet, and Spindle Assembly, and adding an Adjusting Bolt Button Assembly. New Serialization is required unless indicated by an asterisk.
Original nameplate removed and new nameplate attached.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda, Code Case No. 1567 & 1711.
Class 1 (Date)

Date 11-5-80 Signed Crosby Valve & Gage Co. by R. G. Caldwell
(N Certificate Holder)

Our ASME Certificate of Authorization No. 1878 to use the NV symbol expires September 30, 1983.
(Date)

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company

Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company
43 Kendrick Street, Wrentham, Massachusetts 02093

Design specifications certified by[1] Boyd T. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] W.D. Greenlaw

PE State Massachusetts Reg. No. 14784

[1]Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 11/25, 19 80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11/25, 1980.

Signed [signature] Commissions MASS 1266
(Inspector) (Nat'l. Bd., State, Prov. and No.)

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.

MAB

3 4 5 6 7 8 9 10 11

ZX00382752

PLAN No 2-1142

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. (a) **Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) **Repair Organization P.O. No, Job No, etc.:** C30893
   (c) **Type Code Symbol Stamp:** Not Applicable
   (d) **Certificate Of Authorization No.:** Not Applicable
   (e) **Expiration Date:** Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. (a) **Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) **Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements:** 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001C	WPPSS	B22-G001C-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-4C	Crosby	N63790-00-0055	N/A	N/A	1980	Replaced	Yes, Code Class 1
MS-RV-4C	Crosby	N63790-00-0056	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced existing relief valve MS-RV-4C. The replacement work was performed as follows
   1) Removed existing relief valve MS-RV-4C, Serial No N63790-00-0055 with set pressure of 1195 Psig at rated temperature of 575° F
   2) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
   3) VT-3 visual examination on the existing studs for the relief valve inlet joint was previously performed in accordance with ASME Section XI Plan No 2-1114
   3) VT-3 visual examination on the existing studs and nuts for the relief valve body to bonnet joint was previously performed in accordance with ASME Section XI Plan No 2-1114
   4) Installed replacement relief valve with Serial No N63790-00-0056 with set pressure of 1195 Psig at rated temperature of 575° F
   5) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint
   6) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   7) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   8) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   9) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   10) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -
1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with no Addenda for the relief valve

PLAN No 2-1142

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [X] **Nominal Operating Pressure** [X] **Other** [ ] **None**

Test Pressure: 1023/7.5 Psig **Test Temperature:** 198.6/72° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: 1) See attached NV-1 Code Data Report for MSRV, Serial No N63790-00-0056
2) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F
3) Pneumatic pressure test on the relief valve body to bonnet joint - Test pressure of 7.5 Psig and test temperature of 72° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection **Signed By** [signature] — Manager, Materials And Inspection

Date 8/2/95 **Date** 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 1-17-95 *to* 8-2-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] **Commissions** NB9318 9318W A,N,I
Inspector's Signature — National Board, State, and Endorsements

Date August 16, 1995

PLAN NO. 2-1142.
Rudolph Swib
7T6195

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES Q.C.-44D
As Required by the Provisions of the ASME Code Rules

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-65-BP-FN Order No. N94275 Contract Date 4/24/79 National Board No. N/A

2. Manufactured For General Electric Company, 175 Curtner Ave., San Jose, CA 95125 Order No. 205-AJ986
Name and Address

3. Owner Washington Public Power Supply System, Richland, Washington 99352
Name and Address

4. Location of Plant Hanford Reservation, Richland, Washington 99352

5. Valve Identification MPL #B22-F013 Serial No. N63790-00-0056 Drawing No. DS-A-63790 Rev. C

Type Safety Relief (Safety, Safety Relief, Pilot, Power Actuated) Orifice Size R Inch Pipe Size — Inch Inlet 6 Inch Outlet 10 Inch

6. Set Pressure (psig) 1195 575° F (Rated Temperature)

Stamped Capacity 899,185 @ 3 %Overpressure — Blowdown (psig) 2% to 11%

Hydrostatic Test (psig) Inlet 2370 Outlet 975 psig (Assembled Valve) 1100 psig (Body Only)
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

	Serial No. Identification	Material Specification Including Type or Grade
a. Bar Stock & Forgings		
Body	N93183-35-0075	ASTM A105 -71 Gr. II ASME SA105 Gr. II
Bonnet	N93407-35-0038	ASTM A105 -71 Gr. II ASME SA105 Gr. II
b. [illegible]		
[illegible] Disc Insert	N93185-34-0088	ASME SA637 Gr. 718
Nozzle	N93184-33-0060	ASME SA182 Gr. F316
Disc Holder *K55484-35-0096	*N89714-34-0107	AMS 5662B
Spring Washers K62858-35-0038	K62856-35-0094 K62857-35-0059	ASTM A105-71 Gr. II ASME SA105 Gr. II
Adjusting Bolt	N93410-33-0063	ASME SA193 Gr. B6
Spindle Point K62873-35-0056	*N89720-34-0069	ASTM A564-71 Type 630 ASME SA564 Type 630
c. Spring K62858-35-0038	*N89722-0014	ASTM A304-66 Gr. 4161H
d. Bolting		ZX00380146
e. Spindle Ball K62873-35-0056	N93213-0056	Stellite #6
Thrust Bearing Adapter	N93409-32-0058	ASME SA193 Gr. B6
Bonnet Stud (I17)	N93207-0669 thru 0680	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Bonnet Stud Nut (J87)	N93210-0889 thru 0900	ASME SA194 Gr. 2H
Inlet Stud (BW6)	N93216-0671 thru 0682	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Inlet Stud Nut (BW8)	N93218-0675 thru 0686	ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
Adjusting Bolt Button K63618-33-0065	N93411-33-0065	ASME SA193 Gr. B6

Valve originally built against Crosby Order No. N103600, Assembly No. N56000. Valve modification consists of replacement of the Disc Insert, Nozzle, Bonnet Stud Nuts, Adjusting Bolt, and Thrust Bearing Adapter, remachining of the Body, Spring Washers, Bonnet, and Spindle Assembly, and adding an Adjusting Bolt Button Assembly. New Serialization is required unless indicated by an asterisk. Original nameplate removed and new nameplate attached.

N103790-00-0056

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda (Date), Code Case No. 1567 & 1711

Class I

Date 11-5-80 Signed Crosby Valve & Gage Co. (N Certificate Holder) by R.G. Casavant

Our ASME Certificate of Authorization No. 1878 to use the NV symbol expires September 30, 1983 (Date)

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company

Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company 43 Kendrick Street, Wrentham, Massachusetts 02093

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] W.D. Greenlaw

PE State Massachusetts Reg. No. 14784

[1] Signature not required -- list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 11/18, 1980 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11/18 1980

Signed (Inspector) Commissions MASS 1266 (Nat'l. Bd., State, Prov. and N

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.

ZX00380147

PLAN No 2-1143

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001A	WPPSS	B22-G001A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-1A	Crosby	N63790-00-0048	N/A	N/A	1980	Replaced	Yes, Code Class 1
MS-RV-1A	Crosby	N63790-00-0049	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced existing relief valve MS-RV-1A. The replacement work was performed as follows
   1) Removed existing relief valve MS-RV-1A, Serial No N63790-00-0048 with set pressure of 1155 Psig at rated temperature of 575° F
   2) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
   3) Installed replacement relief valve with Serial No N63790-00-0049 with set pressure of 1175 Psig at rated temperature of 575° F
   4) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint
   5) Reinstalled existing studs for the relief valve inlet joint without performing VT-3 visual examination - See PER No 295-0796
   6) Installed one (1) new nut for the relief valve inlet joint
   7) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   8) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   9) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   10) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   11) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -
1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with no Addenda for the relief valve

PLAN No 2-114

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [X] **Nominal Operating Pressure** [X] **Other** [ ] **None**

Test Pressure: 1023/7.5 Psig **Test Temperature:** 198.6/69° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: 1) See attached NV-1 Code Data Report for MSRV, Serial No N63790-00-0049
2) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F
3) Pneumatic pressure test on the relief valve body to bonnet joint - Test pressure of 7.5 Psig and test temperature of 69° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh **Signed By**

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 8/2/95 **Date** 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 1-17-95 *to* 8-2-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Curt F Jans **Commissions** NB9318 9318W A, N, I

Inspector's Signature — National Board, State, and Endorsements

Date August 16, 1995

~~AS-RV-2B~~

PLAN NO. 2-1143
Residual Heat Removal Pumps
7/6/85

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES Q.C.-44D
As Required by the Provisions of the ASME Code Rules

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured by Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-65-BP-FW Order No. N96275 Contract Date 4/24/79 National board No. N/A
General Electric Company, 175 Curtner Ave.,

2. Manufactured for San Jose, CA 95125 Order No. 205-AJ986
Name and Address

3. Owner Washington Public Power Supply System, Richland, Washington 99352
Name and Address

4. Location of Plant Hanford Reservation, Richland, Washington 99352

5. Valve Identification MP1 SR22-F013 Serial No. N63790-00-0049 Drawing No. DS-A-63790 Rev. C

Type Safety Relief Orifice Size R Pipe Size — Inlet 6 Outlet 10
Safety, Safety Relief, Pilot, Power Actuated — inch — inch inch inch

6. Set Pressure (psig) 1175 575° F
Rated Temperature

Stamped Capacity 884,314 @ 3 %Overpressure — Blowdown (psig) 22 to 112

Hydrostatic Test (psig) Inlet 2370 Outlet 1100 psig (Body Only) 975 psig (Assembled Valve)
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

	Serial No. Identification	Material Specification Including Type or Grade
a. Bar Stock & Forgings		
Body	N93183-35-0068	ASTM A105-71 Gr. II ASME SA105 Gr. II
Bonnet	N93407-35-0031	ASTM A105-71 Gr. II ASME SA105 Gr. II
b.		
Disc Insert	N93185-34-0081	ASME SA637 Gr. 7
Nozzle	N93184-33-0051	ASME SA182 Gr. F3
Disc Holder *X55484-35-0095	*N89714-34-0127	AMS 5662B
Spring Washers K62858-35-0031	X62856-35-0087 X62857-35-0052	ASTM A105-71 Gr. II ASME SA105 Gr. II
Adjusting Bolt	N93410-33-0056	ASME SA193 Gr. B6
Spindle Point X62873-35-0049	*N89720-34-0092	ASTM A564-71 Type 630 ASME SA564 Type 630
c. Spring K62858-35-0031	*N89722-0005	ASTM A304-66 Gr. 4161H
d. Bolting		
e. Spindle Ball X62873-35-0049	N93213-0049	Stellite #6
Thrust Bearing Adapter	N93409-32-0051	ASME SA193 Gr. B6
Bonnet Stud (BU5, I17)	N93207-0585 thru 0596	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Bonnet Stud Nut (J87)	N93210-0805 thru 0816	ASME SA194 Gr. 2H
Inlet Stud (BU6)	N93216-0587 thru 0598	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Inlet Stud Nut (BU8)	N93218-0591 thru 0602	ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
Adjusting Bolt Button K63618-33-0057	N93411-33-0057	ASME SA193 Gr. B6

MAB 2-1-85

2

FOR INFORMATION ONLY

ZX00380986

S/N N6 3790-00 - 9
Rudolph Supp
3/1/89

Valve originally built against Crosby Order No. N103600, Assembly No. N56000. Valve modification consists of replacement of the Disc Insert, Nozzle, Bonnet Stud Nuts, Adjusting Bolt, and Thrust Bearing Adapter, remachining of the Body, Spring Washers, Bonnet, and Spindle Assembly, and adding an Adjusting Bolt Button Assembly. New Serialization is required unless indicated by an asterisk.
Original nameplate removed and new nameplate attached.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda, Code Case No. 1567 & 1711
Class 1 (Date)

Date 11-5-80 Signed Crosby Valve & Gage Co. by R.C. Connors
(N Certificate Holder)

Our ASME Certificate of Authorization No. 1878 to use the NV symbol expires September 30, 1983.
(Date)

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company
Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company
43 Kendrick Street, Wrentham, Massachusetts 02093
Design specifications certified by[1] Boyd P. Brooks
PE State California Reg. No. 13655
Stress report certified by[1] W.D. Greenlaw
PE State Massachusetts Reg. No. 14784

[1]Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 12/5, 1980 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12/5 1980
Signed John F. Adams (Inspector) Commissions MASS 1266 (Nat'l. Bd., State, Prov. and No.)

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.

MAB 1-26-89

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7 8 9 10
11

ZX00380987

PLAN No 2-1146

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001C	WPPSS	B22-G001C-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-3C	Crosby	N63790-00-0052	N/A	N/A	1980	Replaced	Yes, Code Class 1
MS-RV-3C	Crosby	N63790-00-0124	N/A	N/A	1981	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced existing relief valve MS-RV-3C. The replacement work was performed as follows
   1) Removed existing relief valve MS-RV-3C, Serial No N63790-00-0052 with set pressure of 1185 Psig at rated temperature of 575° F
   2) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
   3) VT-3 visual examination on the existing studs for the relief valve inlet joint was previously performed in accordance with ASME Section XI Plan No 2-1113
   3) VT-3 visual examination on the existing studs and nuts for the relief valve body to bonnet joint was previously performed in accordance with ASME Section XI Plan No 2-1113
   4) Installed replacement relief valve with Serial No N63790-00-0124 with set pressure of 1185 Psig at rated temperature of 575° F
   5) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint
   6) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   7) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   8) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   9) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   10) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -
1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with no Addenda for the relief valve

PLAN No 2-1146

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [X] **Nominal Operating Pressure** [X] **Other** [ ] **None**

Test Pressure: 1023/7.5 Psig **Test Temperature:** 198.6/73.5° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: 1) See attached NV-1 Code Data Report for MSRV, Serial No N63790-00-0124
2) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F
3) Pneumatic pressure test on the relief valve body to bonnet joint - Test pressure of 7.5 Psig and test temperature of 73.5° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement **conforms to the rules of the ASME Code, Section XI**
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh **Signed By** [signature]
Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 8/2/95 **Date** 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington **and employed by** Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts **have inspected the components described in this Owner's Report during the period** 1-17-95 **to** 8-2-95 **and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI**
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

[signature] **Commissions** NB 9318 9318W A, N, I
Inspector's Signature — National Board, State, and Endorsements

Date August 16, 1995

PLAN NO. 2-1146
Rudolph Ruys
7/7/85

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES Q.C.-44D
As Required by the Provisions of the ASME Code Rules

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-65-BP-FN Order No. N94281 Concract Date 4/24/79 National Board No. N/A

2. Manufactured For General Electric Company, 175 Curtner Ave., San Jose, CA 95125 Order No. 205-AJ986
Name and Address

3. Owner Washington Public Power Supply System, Richland, Washington 99352
Name and Address

4. Location of Plant Hanford Reservation, Richland, Washington 99352

5. Valve Identification MPL #B22-F013 Serial No. N63790-00-0124 Drawing No. DS-A-63790 Rev. C

Type Safety Relief (Safety, Safety Relief, Pilot, Power Actuated) Orifice Size R Inch Pipe Size — Inch Inlet 6 Inch Outlet 10 Inch

6. Set Pressure (psig) 1185 5750 °F
Rated Temperature

Stamped Capacity 891,750 @ 3 %Overpressure — Blowdown (psig) 2% to 11%

Hydrostatic Test (psig) Inlet 2370 Outlet 975 psig (Assembled Valve) 1100 psig (Body Only)
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

	Serial No. Identification	Material Specification Including Type or Grade
a. Bar Stock & Forgings		
Body	N93183-36-0087	ASTM A105-71 Gr. II ASME SA105 Gr. II
Bonnet	N93407-36-0098	ASTM A105-71 Gr. II ASME SA105 Gr. II
b. Disc Insert	N93185-37-0156	ASME SA637 Gr. 718
Nozzle	N93184-33-0072	ASME SA182 Gr. F316
Disc Holder K55484-31-0005	N89714-31-0008	AMS 5662B
Spring Washers K62858-36-0081	K62856-36-0116 K62857-36-0130	ASME SA105 Gr. II
Adjusting Bolt	N93410-33-0072	ASME SA193 Gr. B6
Spindle Point K62873-37-0136	N89720-43-0157	ASTM A564-71 Type 630 ASME SA564 Type 630
c. Spring K62858-36-0081	NX2689-0126	ASTM A304-66 Gr. 4161H
d. Soldring Spindle Ball		
e. K62873-37-0136	N93213-0203	Stoody #6
Thrust Bearing Adapter	N93409-32-0065	ASME SA193 Gr. B6
Bonnet Stud (BW19)	N93207-1522 thru 1533	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Bonnet Stud Nut (J87)	N93210-1033 thru 1044	ASME SA194 Gr. 2H
Inlet Stud (BW21)	N93216-1455 thru 1466	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Inlet Stud Nut (BW22)	N93218-1389 thru 1400	ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
Adjusting Bolt Button K63618-33-0094	N93411-33-0094	ASME SA193 Gr. B6

...e originally built against Crosby Order No. N51727, Assembly No. N56000. Valve modification consists of replacement of the Disc Insert, Nozzle Bonnet Stud Nuts, Adjusting Bolt and Thrust Bearing Adapter, remachining of the Body, Spring Washers, Bonnet, and Spindle Assembly, and adding an Adjusting Bolt Button Assembly. New Serialization is required unless indicated by an asterisk.
Original nameplate removed and new nameplate attached.

N63790-00-0124

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda, Code Case No. 1567 & 1711 Class 1 (Date)

Date 11-5-80 Signed Crosby Valve & Gage Co. by R.G. Casavant
(N Certificate Holder)

Our ASME Certificate of Authorization No. 1878 to use the NV symbol expires September 30, 1983
(Date)

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company

Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company 43 Kendrick Street, Wrentham, Massachusetts 02093

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] W.D. Greenlaw

PE State Massachusetts Reg. No. 14784

[1] Signature not required – list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 1/13, 19 81 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/13 19 81

Signed [illegible] Commissions MASS 1266
(Inspector) (Nat'l. Bd., State, Prov. and No.)

*Arkwright-Boston Manufacturers Mutual Insurance Company – Mutual Boiler & Machinery Div.

PLAN No 2-1154

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/19/95
Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: C30893
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Main Steam (MS) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-416-1
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
MS(1)-4A	WPPSS	MS(1)-4A-P4	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced existing valve MS-V-20. The replacement work was performed as follows
1) Cut existing circumferential butt welds and removed the existing valve
2) Beveled the cut pipe ends
3) Installed new valve and made circumferential butt welds
4) Surface finished the circumferential butt weld for ISI (PSI)
5) Performed UT examination on the final circumferential butt weld for ISI (PSI). UT examination results acceptable
6) Performed RT examination on the final circumferential butt weld. RT examination results acceptable
7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

Note No 1 - The RT examination performed on the final circumferential butt weld was performed in accordance with ASME Section III, Code Class 2, 1992 Edition with no Addenda to satisfy the commitments made in Relief Request No 2ISI-13 for Code Case N-416-1
Note No 2 - Pressure test performed on the final circumferential butt weld was performed in accordance with ASME Section XI, 1992 Edition with no Addenda to satisfy the commitments made in Relief Request No 2ISI-13 for Code Case N-416-1

PLAN No 2-115

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [X] Other [ ] None

Test Pressure: 1003 Psig **Test Temperature:** 113° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: See attached NPV-1 and N-2 Code Data Report for the new valve MS-V-20

Code Data Report	Item	Serial No
NPV-1	Valve	R Z227 1 1
N-2	Body	4
N-2	Disc	9

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh *Signed By* [signature]

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 *Date* 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 4-6-95 *to* 6-20-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] *Commissions* NB 9318 W A,N,I

Inspector's Signature — National Board, State, and Endorsements

Date 6-22-95

PLAN NO. 2-1154
Rudolph Sumps 5/6/95

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First St., Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. R-Z337-1

2. Manufactured for Washington Public Power Supply System, P.O. Box 968, Richland, WA 99352-0968 (Name and Address) Order No. 244147 /

3. Owner Washington Public Power Supply System

4. Location of Plant WNP-2, North Power Plant Loop, Richland, WA 99352

5. Pump or Valve Identification R-Z337-1-1 /

3"-900#-Globe Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. W95-24452 R/- Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 1717/2160 (Pressure) psi 575/100 (Temperature) °F

7. The material, desigh, construction, and workmanship complies with ASME Code Section III. Class 2

Edition 1971, Addenda Date Winter 1972, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
*Body HT.#V6620 ✓	SA216-WCB ✓	CMI-Quaker Alloy, Inc.	
S/N 4			
*See N-2 form - Reference A/DV S.O. P-X265-1			
(b) Forgings			
Bonnet HT.#A955A ✓	SA105 ✓	Copperweld Steel	
S/N 1			
**Disc HT.#A952A ✓	SA105 ✓	Copperweld Steel	
S/N 9			
**See N-2 form - Reference	A/DV S.O. P-X729-2		
Gasket Retaining Ring	SA105	Copperweld Steel	
HT.#A955A ✓			

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items, 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

5/1/95

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
N/A				
(d) Other Parts				
N/A				

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by David J. Murphy (1) Prof. Eng. State WA Reg. No. 12542

Stress analysis report certified by N/A (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 4-27 19 95 Signed Anchor/Darling Valve Co (Manufacturer) By Debra A Loudenslager

Certificate of Authorization No. N1712 expires 4/15/98

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State ~~KRHXXXX~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the equipment described in this Data Report on 3-1 thru 4-28 19 95, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-28 19 95

Charles Young (Inspector) Commissions Pennsylvania 2392 (National Board, State, Province and No.)

Charles Young

This form (E37) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

4/28/95

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provision of the ASME Code Rules, Section III, Div. 1

PLAN NO. 2-1154

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Washington Public Power Supply System, P.O. Box 968, Richland, WA 99352-0988
(Name and address of N Certificate Holder for completed nuclear components)

2. Identification-Certificate Holder's Serial No. of Part S/N - 4 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D13595 R/- Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Body (1 pc.) Heat No. V6620 SA216-WCB

(c) Applicable ASME Code Section III, Edition 1971, Addenda date Wnt '72, Case No. --- Class 2

3. Remarks: Spare Part for 3"-900#-Globe Valve
(Brief description of service for which component was designed)

A/DV S.O. P-X265-1

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 7-14 19 94 Signed Anchor/Darling Valve Co. By Debra C. Londerslager
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/95 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at

Stress analysis report on file at

Design specifications certified by Prof. Eng. State Reg. No.

Stress analysis report certified by Prof. Eng. State Reg. No.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~Province of~~ Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 5-25-94 thru 7-14-94 19__, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7-14 19 94

Charles Young
Commissions Pennsylvania 2392
National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-3 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

7/14/94

PLAN NO. 2-1154

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provision of the ASME Code Rules, Section III, Div. 1

Rudolph Swp 5 5/6/95

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Washington Public Power Supply System, P.O. Box 968, Richland, WA 99352
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 9 ✓ Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D12090 R/B Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat No. A952A ✓ SA105

(c) Applicable ASME Code: Section III, Edition 1971 ✓, Addenda date Wnt '72 ✓, Case No. ---- Class 2

3. Remarks: Spare Part for 3"-900#-Globe Valve
(Brief description of service for which component was designed)

A/DV S.O. & Item No.: P-X729-2

No Hydro Performed

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 11-8 19 94 Signed Anchor/Darling Valve Co. By Debra Loudenslager
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/95 Certificate of Authorization No. N1713 ✓

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at

Stress analysis report on file at

Design specifications certified by Prof. Eng. State Reg. No.

Stress analysis report certified by Prof. Eng. State Reg. No.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State ~~of~~ of Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 9-1-94 thru 11-9-94 19__, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-9 19 94

Charles Young
Inspector's Signature

Commissions Pennsylvania 2392 ✓
National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-3 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

4/27/95

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

PLAN No 2-1157

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001B	WPPSS	B22-G001B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-2B	Crosby	N63790-00-0134	N/A	N/A	1973	Replaced	Yes, Code Class 1
MS-RV-2B	Crosby	N63790-00-0050	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced existing relief valve MS-RV-2B. The replacement work was performed as follows
   1) Removed existing relief valve MS-RV-2B, Serial No N63790-00-0134 with set pressure of 1175 Psig at rated temperature of 575° F
   2) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable
   3) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
   4) VT-3 visual examination on the existing studs and nuts for the relief valve body to bonnet joint was previously performed in accordance with ASME Section XI Plan No 2-1115
   5) Installed replacement relief valve with Serial No N63790-00-0050 with set pressure of 1175 Psig at rated temperature of 575° F
   6) Reinstalled VT-3 visually examined existing studs for the relief valve inlet joint
   7) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint
   8) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   9) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   10) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   11) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   12) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -
1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with no Addenda for the relief valve

PLAN No 2-1157

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [X] **Nominal Operating Pressure** [X] **Other** [ ] **None**

Test Pressure: 1023/7.5 Psig **Test Temperature:** 198.6/72.8° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: 1) See attached NV-1 Code Data Report for MSRV, Serial No N63790-00-0050
2) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F
3) Pneumatic pressure test on the relief valve body to bonnet joint - Test pressure of 7.5 Psig and test temperature of 72.8° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement **conforms to the rules of the ASME Code, Section XI**
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh **Signed By**

Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 8/2/95 **Date** 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington **and employed by** Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts **have inspected the components described in this Owner's Report during the period** 4-11-95 **to** 8-2-95 **and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI**
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Inspector's Signature

Commissions NB9318 93180 A, N, I
National Board, State, and Endorsements

Date August 16, 1995

PLAN NO. 2-1151 ~~PAS RV-1D~~

Rudolf Gupe 7/7/95

CROSBY

CROSBY VALVE & GAGE COMPANY

WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES Q.C.-44D

As Required by the Provisions of the ASME Code Rules

DATA REPORT

Safety and Safety Relief Valves FOR INFORMATION ONLY

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-65-BP-FN Order No. N94275 Contract Date 4/24/79 National Board No. N/A

2. Manufactured For General Electric Company, 175 Curtner Ave., San Jose, CA 95125 Order No. 205-AJ986
Name and Address

3. Owner Washington Public Power Supply System, Richland, Washington 99352
Name and Address

4. Location of Plant Hanford Reservation, Richland, Washington 99352

5. Valve Identification MPL #B22-F013 Serial No. N63790-00-0050 Drawing No. DS-A-63790 Rev. C

Type Safety Relief (Safety, Safety Relief, Pilot, Power Actuated) Orifice Size R Inch Pipe Size -- Inch Inlet 6 Inch Outlet 10 Inch

6. Set Pressure (psig) 1175 575° F
Rated Temperature

Stamped Capacity 884,314 @ 3 %Overpressure -- Blowdown (psig) 2% to 11%

Hydrostatic Test (psig) Inlet 2370 Outlet 975 psig (Assembled Valve) 1100 psig (Body Only)
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

	Serial No. Identification	Material Specification Including Type or Grade
Bar Stock & Forgings		
a. ~~Castings~~ Body	N93183-35-0069	ASTM A105-71 Gr. II ASME SA105 Gr. II
Bonnet	N93407-35-0032	ASTM A105-71 Gr. II ASME SA105 Gr. II
b. ~~Bar Stock Forgings~~ ~~Seat Ring~~ Disc Insert	N93185-34-0082	ASME SA637 Gr. 718
Nozzle	N93184-33-0054	ASME SA182 Gr. F316
Disc Holder *K55484-35-0097	*N89714-34-0101	AMS 5662B
Spring Washers K62858-35-0032	K62856-35-0088 K62857-35-0053	ASTM A105-71 Gr. II ASME SA105 Gr. II
Adjusting Bolt	N93410-33-0057	ASME SA193 Gr. B6
Spindle Point K62873-35-0050	*N89720-34-0066	ASTM A564-71 Type 630 ASME SA564 Type 630
c. Spring K62858-35-0032	*N89722-0008	ASTM A304-66 Gr. 4161H
d. Bolting		ZX00380116
e. ~~Other Parts~~ Spindle Ball K62873-35-0050	N93213-0050	Stellite #6
Thrust Bearing Adapter	N93409-32-0052	ASME SA193 Gr. B6
Bonnet Stud (BW5, K17)	N93207-0597 thru 0608	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Bonnet Stud Nut (J87)	N93210-0817 thru 0828	ASME SA194 Gr. 2H
Inlet Stud (BW6)	N93216-0599 thru 0610	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Inlet Stud Nut (BW8)	N93218-0603 thru 0614	ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
Adjusting Bolt Button K63618-33-0058	N93411-33-0058	ASME SA193 Gr. B6

Valve originally tested against steam. The modification consists of replacement of the Disc Insert, Nozzle, Bonnet Stud Nuts, Adjusting Bolt, and Thrust Bearing Adapter, remachining of the Body, Spring Washers, Bonnet and Spindle Assembly, and adding an Adjusting Bolt Button Assembly. New serialization is required unless indicated by an asterisk. Original nameplate removed and new nameplate attached.

No. 3790-00-0050

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda (Date), Code Case No. 1567 & 1711.

Class 1

Date 11-5-80 Signed Crosby Valve & Gage Co. (N Certificate Holder) by R. G. Lashmett

Our ASME Certificate of Authorization No. 1878 to use the NV symbol expires September 30, 1983 (Date).

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company

Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company 43 Kendrick Street, Wrentham, Massachusetts 02093

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] W. D. Greenlaw

PE State Massachusetts Reg. No. 14784

[1]Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 12/5, 1980 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12/5 1980

Signed (Inspector) Commissions MASS 1266 (Nat'l. Bd., State, Prov. and No.)

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.

ZX00380117

PLAN No 2-1158

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001D	WPPSS	B22-G001D-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-2D	Crosby	N63790-00-0138	N/A	N/A	1973	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** The following work was performed either by Washington Public Power Supply System (WPPSS) or by Raytheon Engineers & Constructors

Refurbished and reinstalled existing main steam relief valve MS-RV-2D Serial No N63790-00-0138. The replacement (refurbishment) work and the reinstallation work was performed as follows

1) Removed existing disc insert from the valve
2) Installed new disc insert in the valve
3) Removed existing nozzle from the valve
4) Installed refurbished nozzle in the valve. The nozzle was previously refurbished in accordance with ASME Section XI Plan No 2-0888
5) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable
6) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
7) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve body to bonnet joint. VT-3 visual examination results acceptable
8) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable
9) Reinstalled relief valve
10) Reinstalled VT-3 visually examined existing studs and nuts for the relief valve inlet joint
11) Reinstalled VT-3 visually examined existing studs and nuts for the relief valve body to bonnet joint
12) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
13) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
14) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
15) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
16) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -

1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with Summer 1972 Addenda for the relief valve

PLAN No 2-1152

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [X] Nominal Operating Pressure [X] Other [ ] None

Test Pressure: 1023/7.5 Psig
Test Temperature: 198.6/71.2° F
Component Design Pressure: 1250 Psig
Temperature: 575° F

9. Remarks: 1) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F
2) Pneumatic pressure test on the relief valve body to bonnet joint - Test pressure of 7.5 Psig and test temperature of 71.2° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 8/2/95
Date 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-10-95 to 8-1-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

[signature]
Inspector's Signature
Commissions NB9318 9318W A, N, I
National Board, State, and Endorsements
Date August 16, 1995

PLAN No 2-1159

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 6/19/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Reactor Pressure Vessel (RPV)
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Summer 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
RPV	CBI Nuclear	T45	8	N/A	1974	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced Local Power Range Monitoring (LPRM) incore assemblies. The replacement work was performed as follows
   1) Removed existing Local Power Range Monitoring (LPRM) incore assemblies from the Reactor Pressure Vessel core locations listed below
   2) Installed new Local Power Range Monitoring (LPRM) incore assemblies in the Reactor Pressure Vessel core locations listed below

Core Location	Core Location	Core Location	Core Location	Core Location	Core Location
08-41	08-17	24-17	40-49	48-49	48-17
08-33	16-33	24-09	40-33	48-33	32-09

PLAN No 2-1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None
Test Pressure: Psig Test Temperature: ° F
Component Design Pressure: Psig Temperature: ° F

9. Remarks: See attached N-2 Code Data Reports for the following new Local Power Range Monitoring (LPRM) incore assemblies

Core Location	LPRM Serial No	Core Location	LPRM Serial No
08-41	M3803	08-33	M3349
08-17	M3346	16-33	M3792
24-17	M3800	24-09	94S0434
40-49	M3793	40-33	M3799
48-49	M3347	48-33	M3791
48-17	M5263	32-09	94S0432

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By — Manager, Materials And Inspection
Date 6/20/95 Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-10-95 to 6-20-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Inspector's Signature
Commissions NB 9318 W A, N, I
National Board, State, and Endorsements
Date 6-22-95

WORK ORDER NUMBER: 5626

PLAN NO. 2-1159

FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

Rudolf Gino 6/14/95

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44087
(Name and address of Manufacturer of part)

(b) Manufactured for WNP-2, WASHINGTON PUBLIC POWER SUPPLY SYSTEM, RICHLAND, WA 99352
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part 94S0432 thru 94S0434 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. RS-C6-1315-201 Drawing Prepared by GE REUTER-STOKES

(b) Description of Part Inspected NA-300 POWER RANGE DETECTOR

(c) Applicable ASME Code: Section III, Edition 1977, Addenda date SUMMER 1977, Case No. N-176-1 Class 1

3. Remarks: DESIGN: PRESSURE 1250 PSIG, TEMPERATURE - VESSEL 575°F. SEAL 300°F.
(Brief description of service for which component was designed)

HYDROSTATIC TEST PRESSURE: 1925 PSIG

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenance Manufacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

12-22- 19 94 Signed GE REUTER-STOKES (Manufacturer) By Robert A. Chandler QUALITY ASSURANCE

Certificate of Authorization Expires SEPTEMBER 16, 1997 Certificate of Authorization No. N-2703

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE REUTER-STOKES, INC. TWINSBURG, OHIO DC24A1257AK

Stress analysis report on file at GE REUTER-STOKES, INC. TWINSBURG, OHIO CDR-C-5320-128

Design specifications certified by SURINDER L. KAMPANI Prof. Eng. State OH Reg. No E-034113

Stress analysis report certified by DOUGLAS E. BACSO Prof. Eng. State OH Reg. No E-044071

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of OHIO and employed by H.S.B.I. & I. Co. of HARTFORD, CT have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on 12 22 19 94, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 22 December 19 94

Inspector's Signature Commission NB 8765 N
National Board, State, Province and No.

WORK ORDER NUMBER: 2548

PLAN NO. 2-1159 PAGE 1 OF 2

Rudolf Supt 6/14/95

FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44087
(Name and address of Manufacturer of part)

(b) Manufactured for WNP-2 - WASHINGTON PUBLIC POWER SUPPLY SYSTEM, RICHLAND, WA 99352
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part SEE PAGE 2 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. RS-E5-1260-201 Drawing Prepared by GE REUTER-STOKES

(b) Description of Part Inspected POWER RANGE DETECTOR DRY TUBE

(c) Applicable ASME Code: Section III, Edition 1977, Addenda date SUMMER 1977, Case No. N/A Class 1

3. Remarks: DESIGN: PRESSURE 1250 PSIG, DESIGN TEMPERATURE 575°F
(Brief description of service for which component was designed)
HYDROSTATIC TEST PRESSURE: 1925 PSIG

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenance Manufacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 10/18 19 93 Signed GE REUTER-STOKES (Manufacturer) By James F. Holmes QUALITY ASSURANCE

Certificate of Authorization Expires SEPTEMBER 16, 1994 Certificate of Authorization No. N-2703

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE REUTER-STOKES, INC. TWINSBURG, OHIO CDS-C-5026-1

Stress analysis report on file at GE REUTER-STOKES, INC. TWINSBURG, OHIO CDR-C-5253-05

Design specifications certified by SURINDER L. KAMPANI Prof. Eng. State OH Reg. No. E-034113

Stress analysis report certified by DOUGLAS E. BACSO Prof. Eng. State OH Reg. No. E-044071

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of OHIO and employed by H.S.B.I. & I. Co. of HARTFORD, CT have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on 10-18 1993, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-18 19 93

Jacob C. Schall Commissions NB7720 AN OHIO PANC2454-N
Inspector's Signature National Board, State, Province and No.

10/24/93

FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44087
(Name and address of Manufacturer of part)

(b) Manufactured for WNP-2 - WASHINGTON PUBLIC POWER SUPPLY SYSTEM, RICHLAND, WA 99352
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part SEE BELOW Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. RS-E5-1260-201 Drawing Prepared by GE REUTER-STOKES

(b) Description of Part Inspected POWER RANGE DETECTOR DRY TUBE

(c) Applicable ASME Code: Section III, Edition 1977, Addenda date SUMMER 1977, Case No. N/A Class 1

3. Remarks: DESIGN: PRESSURE 1250 PSIG, DESIGN TEMPERATURE 575°F
(Brief description of service for which component was designed)
HYDROSTATIC TEST PRESSURE: 1925 PSIG

SERIAL NUMBERS: M3341 thru M3355
M3791 thru M3801
M3803, M3804, M3805
M5263

FC. 10/26/93

James A Holmes 10/18/93
QUALITY ASSURANCE DATE

Jack P. Schell 10-18-93
ANI DATE

NB7920-OHIO-PAWC2454-N

PLAN No 2-1162

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/19/95
Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: C30893
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Service Water (SW) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-416-1
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
SW(70)-1-HPCS	WPPSS	SW(70)-1-HPCS-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3
SW(71)-1-HPCS	WPPSS	SW(70)-1-HPCS-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description Of Work Performed: Replaced piping material for the Service Water (SW) system. The replacement work was performed as follows

1) Cut existing socket welds and removed the existing material
2) Installed new pipe and made required socket welds
3) Performed MT examination on the final socket welds. MT examination results acceptable
4) Installed shear lugs and made required welds
5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

Note No 1 - The MT examination performed on the final socket welds was performed in accordance with ASME Section III, Code Class 3, 1992 Edition with no Addenda to satisfy the commitments made in Relief Request No 2ISI-13 for Code Case N-416-1
Note No 2 - Pressure test performed on the final socket welds was performed in accordance with ASME Section XI, 1992 Edition with no Addenda to satisfy the commitments made in Relief Request No 2ISI-13 for Code Case N-416-1

PLAN No 2-116

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [X] Other [ ] None

Test Pressure: 57 Psig
Component Design Pressure: 150 Psig
Test Temperature: 56° F
Temperature: 150° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh Signed By
Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-10-95 to 6-21-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F Jones Commissions NB 9318 W A, N, I
Inspector's Signature — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1163

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/19/95
Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: C30893
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Containment Supply Purge (CSP) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
CSP(1)-1A	WPPSS	CSP(1)-1A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced valves CSP-V-1 and CSP-V-2. The replacement work was performed as follows
1) Drilled and tapped hole in the inboard pipe flange for valve CSP-V-2
2) Installed new plug on the modified inboard pipe flange for valve CSP-V-2
3) Enlarged bolt holes for pipe flange for valve CSP-V-1
4) Enlarged bolt holes for pipe flange for valve CSP-V-2
5) Installed new valves CSP-V-1 and CSP-V-2
6) Installed new bolting material for pipe to valves CSP-V-1 and CSP-V-2 flanged joints
7) Performed pressure test on the flanged joints for valves CSP-V-1 and CSP-V-2 to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-116

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [ ] **Nominal Operating Pressure** [ ] **Other** [X] **LLRT**

Test Pressure: 38.8 Psig **Test Temperature:** 82° F

Component Design Pressure: 45 Psig **Temperature:** 340° F

9. Remarks: See attached NPV-1 Code Data Reports for the following new valves

EPN No	Serial No
CSP-V-1	93-2544-01(N)-01
CSP-V-2	93-2544-01(N)-02

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement **conforms to the rules of the ASME Code, Section XI**

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection **Signed By** [signature] — Manager, Materials And Inspection

Date 6/20/95 **Date** 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington **and employed by** Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts **have inspected the components described in this Owner's Report during the period** 3-27-95 **to** 6-20-95 **and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI**

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature **Commissions** NB 9318 W . A, N I — National Board, State, and Endorsements

Date 6-22-95

CSP-V-1

PLAN NO. 2-1163
Rudolph Engrs.
6/15/95

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

1. Manufactured and certified by C&S Valve Co., Nuclear Products Div.; 40 Chestnut Ave.; Westmont, IL 60559
(name and address of N Certificate Holder)

2. Manufactured for Washington Public Power Supply; P.O. BOX 968; Richland, Washington 99352-0969
(name and address of Purchaser)

3. Location of Installation WNP-2 OPS WHS Complex, WHS #1; North Power Plant Loop; Richland, WA 99352
(name and address)

4. Model No., Series No., or Type Purge Vent Drawing 93-2544-01(N) Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1989 (edition) No Addenda (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 30" (in.) Outlet size 30" (in.)

7. Material: Body SA 216 GR. WCB Bonnet N/A Disk SA 216 GR. WCB Bolting SEE BACK SIDE OF PAGE

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
93-2544-01(N)-01	N/A	HEAT: 2112994 SERIAL: N20646-1	N/A	HEAT: 2113094 SERIAL: N20647-1

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This form (EC0037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 93-2544-01(N)-01

8. Design conditions 218 (pressure) psi 340 (temperature) °F or valve pressure class 150. (1)

9. Cold working pressure 285 psi at 100°F

10. Hydrostatic test 450 psi. Disk differential test pressure 45 psi

11. Remarks: COVER PLATE - MATERIAL: SA 516 GR. 70 HEAT CODE: ZSE
HEX HEAD CAP SCREW - MATERIAL: SA 193 GR. B7 TRACE CODE: 05
GLAND - MATERIAL: SA 516 GR. 70 HEAT CODE: ZSE
STUD - MATERIAL: SA 193 GR. B8M HEAT CODE: K8
HEX NUT - MATERIAL: SA 194 GR. 8M HEAT CODE: EZ
PIPE PLUG - MATERIAL: SA 479 TYPE 316 HEAT CODE: ULE

CERTIFICATION OF DESIGN

Design Specification certified by JACK R. COLE P.E. State WASHINGTON Reg. no. 206563
Design Report certified by N/A P.E. State --- Reg. no. ---

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2723 Expires 5/20/95

Date 3/24/95 Name C&S Valve Co., Nuclear Products Div (N Certificate Holder) Signed [signature] (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by * Allendale Mutual Insurance Co. of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on _____, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

* Factory Mutual Engineering Association

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-24-95 Signed [signature] (Authorized Inspector) Commissions NB10654N IL1469 OHID (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

E/O replace 3/24/95

CSP-V-2

PLAN NO. 2-1163
Rudolf Supp
6/15/95

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

1. Manufactured and certified by C&S Valve Co., Nuclear Products Div.; 40 Chestnut Ave.; Westmont, IL 60559
(name and address of N Certificate Holder)

2. Manufactured for Washington Public Power Supply; P.O. BOX 968; Richland, Washington 99352-0969
(name and address of Purchaser)

3. Location of installation WNP-2 CPS WHS Complex, WHS #1; North Power Plant Loop; Richland, WA 99352
(name and address)

4. Model No., Series No., or Type Purge Vent Drawing 93-2544-01(N) Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1989 (edition) No Addenda (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 30" (in.) Outlet size 30" (in.)

7. Material: Body SA 216 GR. WCB Bonnet N/A Disk SA 216 GR. WCB Bolting SEE BACK SIDE OF PAGE

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
93-2544-01(N)-02	N/A	HEAT: 2112994 SERIAL: N20646-2	N/A	HEAT: 2113094 SERIAL: N20647-2

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 93-2544-01(N)-02

8. Design conditions 218 (pressure) psi 340 (temperature) °F or valve pressure class 150 (1)

9. Cold working pressure 285 psi at 100°F

10. Hydrostatic test 450 psi. Disk differential test pressure 45 psi

11. Remarks: COVER PLATE - MATERIAL: SA 516 GR. 70 HEAT CODE: ZSE
HEX HEAD CAP SCREW - MATERIAL: SA 193 GR. B7 TRACE CODE: 06
GLAND - MATERIAL: SA 516 GR. 70 HEAT CODE: ZSE
STUD - MATERIAL: SA 193 GR. B8M HEAT CODE: K8
HEX NUT - MATERIAL: SA 194 GR. 8M HEAT CODE: E7
PIPE PLUG - MATERIAL: SA 479 TYPE 316 HEAT CODE: ULE

CERTIFICATION OF DESIGN

Design Specification certified by JACK R. COLE P.E. State WASHINGTON Reg. no. 206563
Design Report certified by N/A P.E. State --- Reg. no. ---

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2723 Expires 6/20/95

Date 3/24/95 Name C&S Valve Co., Nuclear Products Div. (N Certificate Holder) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by * Allendale Mutual Insurance Co. of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on _____, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

* Factory Mutual Engineering Association

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-24-95 Signed Charles M Jacobs (Authorized Inspector) Commissions NB 10654 N IL1469 OHIO (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

E/B bypass 3/24/95

PLAN No 2-1164

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 6/19/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Containment Supply Purge (CSP) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 2, 1971 Edition with Winter 1972 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
CSP-V-6	BIF	N 27236 2	N/A	N/A	1977	Replacement	Yes, Code Class 2

7. **Description Of Work Performed:** Modified inboard valve flange for valve CSP-V-6. The work was performed as follows
   1) Drilled and tapped hole in the inboard valve flange for valve CSP-V-6
   2) Installed new plug on the modified inboard pipe flange for valve CSP-V-6
   3) Performed pressure test on the flanged joints for valve CSP-V-6 to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-116

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] LLRT

Test Pressure: 38.8 Psig
Component Design Pressure: 150 Psig
Test Temperature: Ambient
Temperature: 275° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 6/20/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3-24-95 to 6-20-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature
Commissions NB9318 W A, N.I — National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1166

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) — **Date:** 6/19/95
Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: C30893
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Containment Exhaust Purge (CEP) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
CEP(1)-1B	WPPSS	CEP(1)-1B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced valves CEP-V-3A and CEP-V-4A. The replacement work was performed as follows
1) Drilled and tapped hole in the inboard pipe flange for valve CEP-V-4A
2) Installed new plug on the modified inboard pipe flange for valve CEP-V-4A
3) Enlarged bolt holes for pipe flange for valve CEP-V-3A
4) Enlarged bolt holes for pipe flange for valve CEP-V-4A
5) Installed new dam
6) Installed new valves CEP-V-3A and CEP-V-4A
7) Installed new bolting material for pipe to valves CEP-V-3A and CEP-V-4A flanged joints
8) Performed pressure test on the flanged joints for valves CEP-V-3A and CEP-V-4A to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-1166

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

6 Tests Conducted: Hydrostatic [ ] **Pneumatic** [ ] **Nominal Operating Pressure** [ ] **Other** [X] **LLRT**

Test Pressure: 38.9 Psig
Component Design Pressure: 45 Psig
Test Temperature: Ambient/82° F
Temperature: 340° F

9. Remarks: See attached NPV-1 Code Data Reports for the following new valves

EPN No	Serial No
CEP-V-3A	93-2544-02(N)-01
CEP-V-4A	93-2544-02(N)-02

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement **conforms to the rules of the ASME Code, Section XI**
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection **Signed By** [signature] — Manager, Materials And Inspection

Date 6/20/95 **Date** 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington **and employed by** Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts **have inspected the components described in this Owner's Report during the period** 3-24-95 **to** 6-20-95 **and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI**
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature **Commissions** NB 9318 W A, N, I — National Board, State, and Endorsements

Date 6-22-95

CEP-V-3A PLAN NO. 2-1100.

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

Rudolph Bumps 6/15/91

1. Manufactured and certified by C&S Valve Co., Nuclear Products Div.; 40 Chestnut Ave.; Westmont, IL 60559
(name and address of N Certificate Holder)

2. Manufactured for Washington Public Power Supply; P.O. BOX 968; Richland, Washington 99352-0969
(name and address of Purchaser)

3. Location of installation WNP-2 OPS WHS Complex, WHS #1; North Power Plant Loop; Richland, WA 99352
(name and address)

4. Model No., Series No., or Type Purge Vent Drawing 93-2544-02(N) Rev. B CRN N/A

5. ASME Code, Section III, Division 1: 1989 (edition) No Addenda (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 24" (in.) Outlet size 24" (in.)

7. Material: Body SA 216 GR. WCB Bonnet N/A Disk SA 216 GR. WCB Bolting SEE BACK SIDE OF PAGE

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
93-2544-02(N)-01	N/A	HEAT: 2112994 SERIAL: N20643-1	N/A	HEAT: 2113094 SERIAL: N20644-1

*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial No. 93-2544-02(N)-01

8. Design conditions 218 (pressure) psi 340 (temperature) °F or valve pressure class 150

9. Cold working pressure 285 psi at 100°F

10. Hydrostatic test 450 psi. Disk differential test pressure 45 psi

11. Remarks:

COVER PLATE -	MATERIAL: SA 516 GR. 70	HEAT CODE:	HXE
HEX HEAD CAP SCREW -	MATERIAL: SA 193 GR. B7	TRACE CODE:	MF1
GLAND -	MATERIAL: SA 516 GR. 70	HEAT CODE:	ZSE
STUD -	MATERIAL: SA 193 GR. B8M	HEAT CODE:	K8
HEX NUT -	MATERIAL: SA 194 GR. 8M	HEAT CODE:	E7
PIPE PLUG -	MATERIAL: SA 479 TYPE 316	HEAT CODE:	ULE

CERTIFICATION OF DESIGN

Design Specification certified by JACK R. COLE P.E. State Washington Reg. no. 206563

Design Report certified by N/A P.E. State --- Reg. no. ---

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2723 Expires 6/20/95

Date 3/8/95 Name C&S Valve Co., Nuclear Products Div Signed [signature]
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by *Allendale Mutual Insurance Co. of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on _____, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

*Factory Mutual Engineering Association

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-10-95 Signed Charles M Jacobs Commissions NB10654D IL1469 OHIO
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

E/E W/1155 3/10/95

CEP-V-4A PLAN NO. 2-1166

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Division 1

Rudolph Gave 6/15/88

1. Manufactured and certified by C&S Valve Co., Nuclear Products Div.; 40 Chestnut Ave.; Westmont, IL 60559
(name and address of N Certificate Holder)

2. Manufactured for Washington Public Power Supply; P.O. BOX 968; Richland, Washington 99352-0969
(name and address of Purchaser)

3. Location of installation WNP-2 OPS WHS Complex, WHS #1; North Power Plant Loop; Richland, WA 99352
(name and address)

4. Model No., Series No., or Type Purge Vent Drawing 93-2544-02(N) Rev. B CRN N/A

5. ASME Code, Section III, Division 1: 1989 (edition) No Addenda (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 24" (in.) Outlet size 24" (in.)

7. Material: Body SA 216 GR. WCB Bonnet N/A Disk SA 216 GR. WCB Bolting SEE BACK SIDE OF PAGE

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
93-2544-02(N)-02	N/A	HEAT: 2112994 SERIAL: N20643-2	N/A	HEAT: 2113094 SERIAL: N20644-2

*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial No. 93-2544-02(N)-02

8. Design conditions 218 (pressure) psi 340 (temperature) °F or valve pressure class 150

9. Cold working pressure 285 psi at 100°F

10. Hydrostatic test 450 psi. Disk differential test pressure 45 psi

11. Remarks:

COVER PLATE -	MATERIAL: SA 516 GR. 70	HEAT CODE:	HXE
HEX HEAD CAP SCREW -	MATERIAL: SA 193 GR. B7	TRACE CODE:	MF1
GLAND -	MATERIAL: SA 516 GR. 70	HEAT CODE:	ZSE
STUD -	MATERIAL: SA 193 GR. B8M	HEAT CODE:	K8
HEX NUT -	MATERIAL: SA 194 GR. 8M	HEAT CODE:	E7
PIPE PLUG -	MATERIAL: SA 479 TYPE 316	HEAT CODE:	ULE

CERTIFICATION OF DESIGN

Design Specification certified by JACK R. COLE P.E. State Washington Reg. no. 206563

Design Report certified by N/A P.E. State --- Reg. no. ---

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2723 Expires 6/20/95

Date 3/8/95 Name C&S Valve Co., Nuclear Products Div (N Certificate Holder) Signed [signature] (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by *Allendale Mutual Insurance Co. of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on _____, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

*Factory Mutual Engineering Association

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-10-95 Signed [signature] (Authorized Inspector) Commissions NB10654A 12469 OHIO (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

EID 11/95 3/10/95

PLAN No 2-1180

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/19/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Reactor Core Isolation Cooling (RCIC) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: N-416-1
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
RCIC(2)-1	WPPSS	RCIC(2)-1-P1	N/A	N/A	1983	Repair	Yes, Code Class 2

7. **Description Of Work Performed:** Corrected cold spring for pump RCIC-P-3 suction piping. The work was performed as follows
   1) Cut existing socket weld
   2) Reinstalled existing pipe
   3) Made required socket weld
   4) Performed PT examination on the final socket weld. PT examination results acceptable
   5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

Note No 1 - The PT examination performed on the final socket weld was performed in accordance with ASME Section III, Code Class 2, 1992 Edition with no Addenda to satisfy the commitments made in Relief Request No 2ISI-13 for Code Case N-416-1
Note No 2 - Pressure test performed on the final socket weld was performed in accordance with ASME Section XI, 1992 Edition with no Addenda to satisfy the commitments made in Relief Request No 2ISI-13 for Code Case N-416-1

PLAN No 2-118

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [X] Other [ ] None

Test Pressure: 82 Psig
Component Design Pressure: 125 Psig
Test Temperature: 110° F
Temperature: 170° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair *conforms to the rules of the ASME Code, Section XI*
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh **Signed By**
Kuldip Singh - Materials And Inspection — Manager, Materials And Inspection

Date 6/20/95 **Date** 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 3-27-95 *to* 6-21-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Inspector's Signature — **Commissions** NB9318 W A,N,I
National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1181

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001C	WPPSS	B22-G001C-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-2C	Crosby	N63790-00-0122	N/A	N/A	1981	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** The following work was performed either by Washington Public Power Supply System (WPPSS) or by Raytheon Engineers & Constructors

Refurbished and reinstalled existing main steam relief valve MS-RV-2C Serial No N63790-00-0122. The replacement (refurbishment) work and the reinstallation work was performed as follows

1) Removed existing disc insert from the valve
2) Installed new disc insert in the valve
3) Removed existing nozzle from the valve
4) Installed refurbished nozzle in the valve. The nozzle was previously refurbished in accordance with ASME Section XI Plan No 2-0888
5) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable
6) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
7) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve body to bonnet joint. VT-3 visual examination results acceptable
8) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable
9) Reinstalled relief valve
10) Reinstalled VT-3 visually examined existing studs and nuts for the relief valve inlet joint
11) Reinstalled VT-3 visually examined existing studs and nuts for the relief valve body to bonnet joint
12) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
13) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
14) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
15) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
16) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -

1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with no Addenda for the relief valve

PLAN No 2-118

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [X] **Nominal Operating Pressure** [X] **Other** [ ] **None**

Test Pressure: 1023/7.5 Psig **Test Temperature:** 198.6/67.4° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: 1) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F
2) Pneumatic pressure test on the relief valve body to bonnet joint - Test pressure of 7.5 Psig and test temperature of 67.4° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI.*
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection **Signed By** [signature] — Manager, Materials And Inspection

Date 8/2/95 **Date** 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 4-3-95 *to* 8-1-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

[signature] — Inspector's Signature **Commissions** NB9318 9318W A,N,E — National Board, State, and Endorsements

Date August 16, 1995

PLAN No 2-1190

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/19/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Reactor Water Cleanup (RWCU) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 3, 1971 Edition with Winter 1971 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
RWCU-HX-2A	General Electric	223398	54362	N/A	1972	Replacement	Yes, Code Class 3
RWCU-HX-2B	General Electric	223399	54362	N/A	1972	Replacement	Yes, Code Class 3

7. **Description Of Work Performed:** Fabricated spare tube plugs for heat exchangers RWCU-HX-2A and RWCU-HX-2A. The work was performed as follows
   1) Cut bar material to fabricate the tube plugs
   2) Fabricated tube plugs to the required dimensions

PLAN No 2-1190

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection

Signed By [signature] — Manager, Materials And Inspection

Date 6/20/95

Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-7-95 to 6-20-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature

Commissions NB9318 W A, N I — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1191

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) **Date:** 6/20/95
Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
Address: Hanford Reservation, Benton County, Washington
3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
(b) Repair Organization P.O. No, Job No, etc.: C30893
(c) Type Code Symbol Stamp: Not applicable
(d) Certificate Of Authorization No.: Not applicable
(e) Expiration Date: Not Applicable
4. Identification Of System: Reactor Core Isolation Cooling (RCIC) System
5. (a) Applicable Construction Code: ASME Section III, Code Class 1, 1974 Edition with Summer 1975 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. Identification Of Components Repaired Or Replaced And Replacement Components

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
RCIC-V-19	Borg Warner	22295	N/A	N/A	1982	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced bonnet for valve RCIC-V-19. The replacement bonnet was obtained from a spare valve. The replacement work was performed as follows

A) Spare Valve Serial No 53204
1) Cut body to bonnet seal weld for the spare valve
2) Prepped cut/ground surfaces on the spare valve bonnet
3) Performed PT examination on the spare valve bonnet prepped surfaces. PT examination results acceptable

B) Existing Valve RCIC-V-19
1) Cut valve body to bonnet seal weld for the existing valve
2) Prepped cut/ground areas on the existing valve body
3) Performed PT examination on the existing valve body prepped surfaces. PT examination results acceptable
4) Installed new stem disc assembly in the existing valve
5) Installed bonnet removed from the spare valve in the existing valve
6) Made valve body to bonnet seal weld
7) Performed PT examination on the final seal weld. PT examination results acceptable
8) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-1191

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [X] Other [ ] None

Test Pressure: 1100 Psig
Component Design Pressure: 3600 Psig
Test Temperature: 84° F
Temperature: 100° F

9. Remarks: See attached NPV-1 Code Data Report for the spare valve Serial No 53204

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 6/20/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4-25-95 to 6-21-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature]
Inspector's Signature
Commissions NB9318 W ANI
National Board, State, and Endorsements
Date 6-22-95

PLAN NO. 2-7191

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Div. 1

Rudolph Gupta 6/13/85

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)
2. Manufactured for Bovee & Crail/G.E.R.I., P.O. Box 1040, Richland, Washington 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation Richland, Washington WPPSS Hanford #2 Job Site
(Name and Address)
4. Pump or Valve Stop Check Valve. Nominal Inlet Size 2 (inch) Outlet Size 2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	53204	N/A	76880	1	N/A	1980
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. The valves are designed to handle a fluid media which includes steam, water condensate, borated water, etc., associated with a PWR and BWR. The temperature pressure rating of the media is stated below.
(Brief description of service for which equipment was designed)

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure 3600 psi @ 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 3L29	Stellite #6	Rex Precision	
(b) Forgings			
Body-Code 1V66	SA105	Compton Forge	
Bonnet-Code 3W27	SA105	Jorgensen	

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts N/A			

9. Hydrostatic test 5400 psi. Disc Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda Summer '75 (Date), Code Case No. N/A, Date 4/2/80

Signed Nuclear Valve Div., Borg Warner (N Certificate Holder) by J. McGuinness

Our ASME Certificate of Authorization No. N-1254 to use the N (N) symbol expires 10/27/81 (Date).

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409

Stress analysis report (Class 1 only) on file at NVD of Borg Warner, 7500 Tyrone Ave. Van Nuys, CA 91409

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) Liwei Chen

PE State CA Reg. No. 18581

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 4/2 19 80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4/2 19 80.

(Inspector) Commissions 1275 CA. (Nat'l Bd., State, Prov. and No.)

PLAN No 2-1192

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Summer 1972 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N56000-01-0037*	N/A	N/A	1973	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced disc insert and nozzle for spare main steam relief valve, Serial No N56000-01-0037*. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new disc insert in the valve
   3) Removed existing nozzle from the valve
   4) Installed refurbished nozzle in the valve. The nozzle was previously refurbished in accordance with ASME Section XI Plan No 2-0888
   5) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable
   6) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve body to bonnet joint. VT-3 visual examination results acceptable
   7) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable

NOTES -
1) * "Bailly" relief valve Serial No N56000-01-0037 was modified by Crosby to Serial No N63790-00-0134

PLAN No 2-1192

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed in the system under a separate ASME Section XI plan

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement *conforms to the rules of the ASME Code, Section XI*

Type Code Symbol Stamp: Not Applicable

Certificate Of Authorization No.: Not Applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection — *Signed By* Manager, Materials And Inspection

Date 8/2/95 — *Date* 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington *and employed by* Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts *have inspected the components described in this Owner's Report during the period* 5-9-95 *to* 8-2-95 *and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI*

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

Inspector's Signature — *Commissions* NB 9318 9318W A, N, I — National Board, State, and Endorsements

Date August 16, 1995

PLAN No 2-1200

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: C30893
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001B	WPPSS	B22-G001B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-1B	Crosby	N63790-00-0120	N/A	N/A	1981	Replaced	Yes, Code Class 1
MS-RV-1B	Crosby	N63790-01-0140	N/A	N/A	1994	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** Replaced existing relief valve MS-RV-1B. The replacement work was performed as follows
   1) Removed existing relief valve MS-RV-1B, Serial No N63790-00-0120 with set pressure of 1150 Psig at rated temperature of 575° F
   2) Performed VT-3 visual examination on the nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
   3) Installed replacement relief valve with Serial No N63790-01-0140 with set pressure of 1165 Psig at rated temperature of 575° F
   4) Reinstalled VT-3 visually examined nuts for the relief valve inlet joint
   5) Installed one (1) new nut for the relief valve inlet joint
   6) Installed one (1) new bolt for the relief valve outlet joint
   7) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   8) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
   9) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   10) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
   11) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -
1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with no Addenda for the relief valve

PLAN No 2-1200

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ None

Test Pressure: 1023 Psig
Component Design Pressure: 1250 Psig
Test Temperature: 198.6° F
Temperature: 575° F

9. Remarks: 1) See attached NV-1 Code Data Report for MSRV, Serial No N63790-01-0140
2) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By — Manager, Materials And Inspection
Date 8/2/95
Date 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-4-95 to 8-2-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl J. Jones
Inspector's Signature
Commissions NB9318 9318W A,N,I
National Board, State, and Endorsements
Date August 16, 1995

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MA
PLAN NO. 2-1200.
Duplicate Copy 7/2/98

Q.C.-44C-1

FORM NV-1, FOR SAFETY AND SAFETY RELIEF VALVES
As Required by the Provisions of the ASME Code Rules
DATA REPORT
Safety and Safety Relief Valves

1. Manufactured by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093
(Name and Address of N Certificate Holder)
Model No. HB-65-BP Order No. NV4000468 Contract Date 24 JAN 1994 National Board No. ---

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM RICHLAND,W Order No. 238136 C/N 02
(Name and Address)

3. Owner WASHINGTON PUBLIC POWER SUPPLY SYSTEM RICHLAND, WA
(Name and Address)

4. Location of Plant HANFORD # 2

5. Valve Identification B22-F013 Serial No. N63790-01-0140 Drawing No. DS-A-63790-1 REV 0

Type MAIN STEAM Orifice Size 4.532 (Inch) Pipe Size --- (Inch) Inlet 6 (Inch) Outlet 10 (Inch)
(Safety, Safety Relief, Pilot, Power Actuated)

Set Pressure 1165.0 565 F
Rated Temperature
Stamped Capacity 876878 LB./HR.SAT.STM.@ 3 % Overpressure --- Blowdown (psig) 2 THRU 11
Hydrostatic Test (PSIG) Inlet 2370 Complete Valve 1100

7. The material, design, construction and workmanship comply with ASME Code, Section III.

Class 1 Edition 1971, Addenda Date NO, Case No. ---

		Serial No. Identification	Material Specification. Including Type or Grade
a.	Castings		
	Body	N93183-47-0130	ASTM A105 GR.II
	Bonnet	N93407-47-0058	ASTM A105 GR.II
b.	Bar Stock & Forgings		
	Support Rods	---	---
	Nozzle	N93184-53-0167	ASME SA182 GR.F316
	Disc	N93185-52-0204	ASME SA637 GR.718
		N93186-41-0060	
	Spring Washers	N93187-40-0007	ASTM A105 GR.II
	Adjusting Bolt	N93410-33-0007	ASME SA193 GR.B6
	Spindle	N96461-34-0015	ASTM A564 TYPE 630
c.	Spring	NX2689-0138	ASTM A304 GR.4161 H
d.	Bolting	---	---
e.	Other Pieces		
	DISC HOLDER	N89714-42-0279	AMS5662B(INCONEL718)
	SPINDLE BALL	N96460	ASTM A276 T440C
	ADJ BOLT BUTTON	N93411-36-0015	ASME SA193 GR.B6
	THRUST BEARING ADAPTER	N93409-35-0012	ASTM A193 GR.B6
	BONNET STUD	N93207	ASTM A193 GR.B7
	BONNET NUT	N93210	ASME SA194 CL.2H
	INLET STUD	N93216	ASTM A193 Gr.B7
	INLET NUT	N93218	ASTM A194 CL.2H

Q.C.-44C-1

We certify that the statements made in this report are correct.

Date 27 May 94 Signed Crosby Valve & Gage Company by Laurence Lewis
Manufacturer

Certificate of Authorization No. 1878 expires 30 SEP 95.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Arkwright -Boston Manufacturers Mutual Insurance Company have inspected the equipment described in this Date Report on May 27, 19 94 and state that to the best of my knowledge and belief, the Manufacturer has constructed thisequipment in accordance with the applicable Subsections of ASME Section III

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Factory Mutual System

Date 5/27, 19 94.

Signed [signature] (Inspector)

Commissions MA 455 (Nat'l. Bd., State, Prov. and No.)

PLAN No 2-1201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 7/31/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001D	WPPSS	B22-G001D-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-1D	Crosby	N63790-00-0047	N/A	N/A	1981	Replaced	Yes, Code Class 1
MS-RV-1D	Crosby	N56000-01-0134*	N/A	N/A	1973	Replacement	Yes, Code Class 1

7. **Description Of Work Performed:** The following work was performed either by Washington Public Power Supply System (WPPSS) or by Raytheon Engineers & Constructors

Replaced existing relief valve MS-RV-1D. The replacement work was performed as follows

1) Removed existing relief valve MS-RV-1D, Serial No N63790-00-0047 with set pressure of 1175 Psig at rated temperature of 575° F
2) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable
3) VT-3 visual examination on the existing studs for the relief valve inlet joint was previously performed in accordance with ASME Section XI Plan No 2-1192
4) VT-3 visual examination on the existing studs and nuts for the relief valve body to bonnet joint was previously performed in accordance with ASME Section XI Plan No 2-1192
5) Installed replacement relief valve with Serial No N56000-01-0134* with set pressure of 1175 Psig at rated temperature of 575° F
6) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint
7) Installed one (1) new nut for the relief valve inlet joint
8) Installed one (1) new bolt for the relief valve outlet joint
9) Performed VT-1 visual examination on all the studs for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
10) Performed VT-1 visual examination on all nuts for the relief valve body to bonnet joint while in place. VT-1 visual examination results acceptable
11) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
12) Performed VT-1 visual examination on all the nuts for the relief valve inlet joint while in place. VT-1 visual examination results acceptable
13) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test

NOTES -

1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the piping system - Inlet side
2) ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda for the piping system - Outlet side
3) ASME Section III Code Class 1, 1971 Edition with Summer 1972 Addenda for the "Bailly" relief valve based on NV-1 Code Data Report for Serial No N56000-01-0037
4) * "Bailly" relief valve Serial No N56000-01-0037 was modified by Crosby to Serial No N63790-00-0134

PLAN No 2-1201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] **Pneumatic** [X] **Nominal Operating Pressure** [X] **Other** [ ] **None**

Test Pressure: 1023/7.8 Psig **Test Temperature:** 198.6/72° F

Component Design Pressure: 1250 Psig **Temperature:** 575° F

9. Remarks: 1) See attached NV-1 (Pre - Modification) Code Data Report for MSRV, Serial No N56000-01-0037
2) See attached "Repair And Replacement To Nuclear Components And Systems In Nuclear Power Plants" Certification Report (QC 292A) documenting the modification (upgrade) work performed by Crosby for "Bailly" MSRV, Serial No N56000-01-0037
3) Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F
4) Pneumatic pressure test on the relief valve body to bonnet joint - Test pressure of 7.8 Psig and test temperature of 72° F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement **conforms to the rules of the ASME Code, Section XI**
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection **Signed By** [signature] — Manager, Materials And Inspection

Date 8/2/95 **Date** 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington **and employed by** Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts **have inspected the components described in this Owner's Report during the period** 5-10-95 **to** 8-2-95 **and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI**
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

[signature] Inspector's Signature **Commissions** NB 9318 9318W A, N, I National Board, State, and Endorsements

Date August 16, 1995

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MA

PLAN NO. 2-1201

Q.C.-292, REV.A
SHEET 1 OF 2

Rudolf Gupta 3/10/94 7/11/95

REPAIR AND REPLACEMENT TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093
(Name and Address)
(Repair organization's P.O. No., Job No., etc.). NV4000020

2. Owner WASHINGTON PUBLIC POWER RICHLAND,WA 99352-0968
(Name and Address)

3. Name and Identification of Nuclear Power Plant HANFORD #2

4. Address of Nuclear Power Plant RICHLAND ,WA

5. a. Identifying Nos. N63790-00-0134 ✓ -- -- ----- 1973
(Mfr's Serial No.) (Nat'l Bd. No.) (Jurisdiction No.) (Other) (Year Built)
b. Identification of component repaired or replacement component --
c. Name of Manufacturer CROSBY VALVE & GAGE COMPANY

6. Tests conducted: Hydrostatic (X) Pneumatic ( ) Design Pressure ( ) Pressure 2370.0 psi

7. Identification of System MAIN STEAM

8. Applicable Section(s) III of ASME Code, 19 71 Edition
Addenda NO Code Case --

9. Description of work N56000-01-0037 WAS MODIFIED TO N63790-00-0134 ✓
(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)
ASME SEC.XI,1980 EDITION WINTER 1980 ADDENDA.

10. Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:

PART	PART NO.	MODIFIED TO PART NO.
BODY	N90118	N93183-43-0126
BONNET	N89717	N93407-41-0052
SPINDLE ASSY	K55465	K62873-46-0060
SPR.WASHER	N89724	K62856-41-0200
SPR.WASHER	N89723	K62857-41-0200
SPRING ASSY	K55466	K62858-31-0006
PART	**PART NO.**	**REPLACED WITH**
NOZZLE	N89713	N93184-51-0156
DISC INSERT	N89715	N93185-52-0202
SPRING	NX2689	NX2689-0134
THR.BRG.ADAPT.	N89725	N93409-34-0008
ADJ.BOLT	N89726	N93410-36-0132
ADJ.BOLT BUTT.	COMMERCIAL	N93411-33-0008
ADJ.BOLT ASSY	COMMERCIAL	K63618-31-0001
INLET STUD	N89727	N93216/NAD QTY 10

9-21-22/94

Certificate Holder's Serial No. N63790-00-0134

Q.C.-292, REV. A
SHEET 2 OF 2

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and all design, material, and workmanship on this MOD. (repair/replacement) conforms to the applicable section of the ASME Code.

Signed Lawrence J Sica (Authorized Rep. of Repair Organization) QA Eng Manager (Title) 24 Feb (Date) 1994

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual of Norwood, Massachusetts have inspected the repair or replacement described in this report on Feb 24, 1994 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code.

By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this report. Furthermore, neither the Inspector nor his employe shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Factory Mutual Systems

Date 2/24, 1994.

Signed (Inspector)

Commissions MA 1455 (Nat'l. Bd., State, Prov. and No.)

PLAN No. 2-1201

WPPSS S/N	WPPSS Set	Bailly S/N	Bailly Set
N63790-00-0134	1175	N56000-01-0037	1175
N63790-00-0135	1205	N56000-01-0099	1130
N63790-00-0136	1205	N56000-02-0043	1205
N63790-00-0137	1195	N56000-02-0042	1195
N63790-00-0138	1185	N56000-01-0038	1175
N63790-00-0139	1165	N56000-01-0100	1130

PLAN No. 2-1201
Rudolph Lutz 3/30/94
7/11/95

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules

Q.C.-44A

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, Mass. 02093
Name and Address

Model No. HB-65-BP-FN Order No. N-105286 Contract Date 6/28/71

2. Manufactured For General Electric Company San Jose, California Order No. 205-AD148
Name and Address

3. Owner Northern Indiana Public Service Co., Bailly Generating Station Nuclear I, Baileytown, Indiana
Name and Address

4. Location of Plant Baileytown, Indiana

5. Valve Identification MPL #B-22-F013 Serial No. N56000-01-0037 Drawing No. H-56000 Rev. C

Type Safety Relief (Safety. Safety Relief. Pilot. Power Actuated) Orifice Size R Inch Pipe Size - Inch Inlet 6 Inch Outlet 10 Inch

6. Set Pressure (PSIG) 1175 575° F
Rated Temperature

Stamped Capacity 883950 Lbs. Hr. Sat. Steam & 3 % Overpressure - Blowdown (PSIG) 5%

Hydrostatic Test (PSIG) Inlet 2370 Complete Valve 825

7. The material, design, construction and workmanship comply with ASME Code, Section III.

Class 1 Edition 1971 Addenda Date Summer 1972

Pressure Containing or Pressure Retaining Components

		Serial No. Identification	Material Specification Including Type or Grade
a. Forgings			
Body		N90118-32-0008	ASTM A-105-71 Gr. II ASME SA-105 Gr. II
Bonnet		N89717-32-0021	ASTM A-105-71 Gr. II ASME SA-105 Gr. II
b. Bar Stock and Forgings			
Disc Insert		N89715-31-0028	ASTM A-461-65 Type 630
Nozzle		N89713-32-0039	ASTM A-182-71 F316 ASME SA-182 F316
Disc Holder		N89714-32-0037	AMS 5662 B
Spring Washers	Top	N89724-32-0037	ASTM A-105-71 Gr. II ASME SA-105 Gr. II
	Bottom	N89723-31-0008	
Adjusting Bolt		N89726-33-0046	ASTM A-193-71 Gr. B6 ASME SA-193 Gr. B6
Spindle Point		N89720-32-0046	ASTM A-564-72 Type 630

BWRPD-QC
E.H.B.
3-3-75

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring	NX2689-0042	ASTM A-304-66 Gr. 4161H
d. Bolting		
e. [redacted]		
Inlet Stud	N89727-0433 thru 0444	ASTM A-193-71 Gr. B7 ASME SA-193 Gr. B7
Inlet Stud Nut	N89728-0437 thru 0448	ASTM A-194-71 Cl. 2H ASME SA-194 Cl. 2H
Bonnet Stud	N89718-0437 thru 0448	ASTM A-193-71 Gr. B7 ASME SA-193 Gr. B7
Bonnet Stud Nut	N89719-0439 thru 0450	ASTM A-194-71 Cl. 2H ASME SA-194 Cl. 2H
OTHER PARTS		
Spindle Ball	N89721-0046	Stellite 6
BARS & FORGINGS		
Thrust Bearing Adapter	N89725-32-0035	ASTM A-193-71 Gr. B6 ASME SA-193 Gr. B6

We certify that the statements made in this report are correct.

Date 10-31 1973 Signed Crosby Valve & Gage Co. By [signature]
Manufacturer QA Manager

Certificate of Authorization No. 331 expires November 9, 1974

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Mutual Boiler & Machinery Insurance Co.*, Waltham, Mass. have inspected the equipment described in this Data Report on October 31, 1973 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Factory Mutual Group of Insurance Co.

Date October 31, 1973

Donald F. Chimera Commissions N.B. 6665, Mass. 1070.
(Inspector) National Board, State, Province and No.)

EHB
3-3-75

PLAN No 2-1202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/21/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Diesel Cooling Water (DCW) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1974 Edition with Summer 1975 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
DCW-V-15	Borg Warner	54237	N/A	N/A	1979	Repair	Yes, Code Class 1

7. **Description Of Work Performed:** Removed surface defects on the disc seating surfaces for valve DCW-V-15. The work was performed as follows
   1) Removed surface defects on the disc seating surfaces by machining
   2) Performed PT examination on the final machined seating surfaces. PT examination results acceptable

PLAN No 2-120

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None

Test Pressure: Psig Test Temperature: °F

Component Design Pressure: Psig Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh Signed By

Kuldip Singh - Materials And Inspection Manager, Materials And Inspection

Date 6/21/95 Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-11-95 to 6-21-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

Paul F. Jones Commissions NB 9318 W A, N, I

Inspector's Signature National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 6/21/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Process Sampling Radioactive (PSR) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 2, 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
PSR-V-X83/1	Valcor	7	N/A	N/A	1982	Repair	Yes, Code Class 2

7. **Description Of Work Performed:** Made body to bonnet seal weld for valve PSR-V-X83/1. The work was performed as follows
   1) Cut valve body to bonnet seal weld
   2) Removed valve internals for troubleshooting
   3) Prepped cut/ground areas on the valve body and the bonnet
   4) Reinstalled valve internals and the bonnet
   5) Made valve body to bonnet seal weld
   6) Performed PT examination on the final seal weld. PT examination results acceptable

PLAN No 2-120

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig
Component Design Pressure: Psig
Test Temperature: ° F
Temperature: ° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By — Manager, Materials And Inspection
Date 6/21/95
Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-19-95 to 6-21-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Inspector's Signature
Commissions NB 9318 W A, N, I
National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 6/21/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Containment Supply Purge (CSP) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
CSP(1)-1B	WPPSS	CSP(1)-1B-P1	N/A	N/A	1983	Repair	Yes, Code Class 2

7. **Description Of Work Performed:** Changed the orientation of valve CSP-V-702. The work was performed as follows
   1) Cut existing socket weld.
   2) Removed the connection assembly with valve CSP-V-702
   3) Shortened the pipe nipple
   4) Reinstalled the connection assembly with valve CSP-V-702
   5) Made required socket weld
   6) Performed PT examination on the final socket weld. PT examination results acceptable

PLAN No 2-120

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig | Test Temperature: °F

Component Design Pressure: Psig | Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI

Type Code Symbol Stamp: Not applicable

Certificate Of Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection

Signed By [signature] — Manager, Materials And Inspection

Date 6/21/95

Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-20-95 to 6-21-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature

Commissions NB9318 W A, N, I — National Board, State, and Endorsements

Date 6-22-95

PLAN No 2-1214

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/21/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** High Pressure Core Spray (HPCS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
HPCS-V-21	Borg Warner	24926	N/A	N/A	1977	Repair	Yes, Code Class 1

7. **Description Of Work Performed:** Removed surface defects on the disc seating surfaces for valve HPCS-V-21. The work was performed as follows
   1) Removed surface defects on the disc seating surfaces by machining
   2) Performed PT examination on the final machined seating surfaces. PT examination results acceptable

PLAN No 2-121

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig
Component Design Pressure: Psig
Test Temperature: °F
Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By ____ — Manager, Materials And Inspection
Date 6/22/95
Date 6/22/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-23-95 to 6-21-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Paul F Lane — Inspector's Signature
Commissions NB 9318 W A,N,I — National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1215

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/21/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** High Pressure Core Spray (HPCS) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
HPCS-V-22	Borg Warner	24936	N/A	N/A	1977	Repair	Yes, Code Class 1

7. **Description Of Work Performed:** Removed surface defects on the disc seating surfaces for valve HPCS-V-22. The work was performed as follows
   1) Removed surface defects on the disc seating surfaces by machining
   2) Performed PT examination on the final machined seating surfaces. PT examination results acceptable

PLAN No 2-1215

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig
Component Design Pressure: Psig
Test Temperature: °F
Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By — Manager, Materials And Inspection
Date 6/22/95
Date 6/22/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-23-95 to 6-21-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F Jones
Inspector's Signature
Commissions NB 9318 W A, N, I
National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1217

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 7/10/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Process Sample Radioactive (PSR) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1*, 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
PI(1)-4S-X77AC	JCI	PI(1)-4S-X77AC	N/A	N/A	1983	Repaired	Yes, Code Class 1

7. **Description Of Work Performed:** Removed support material to facilitate rework on valve PSR-V-X77A/2. Upon completion of work on the valve, the support material was reinstalled as follows
   1) Reinstalled support material
   2) Made required welds
   3) Performed MT examination on the final welds. MT examination results acceptable

* - ASME Section III, Code Class NF(1) for the support

PLAN No 2-1217

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None

Test Pressure: Psig — Test Temperature: ° F

Component Design Pressure: Psig — Temperature: ° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI

Type Code Symbol Stamp: Not Applicable

Certificate Of Authorization No.: Not Applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection

Signed By [signature] — Manager, Materials And Inspection

Date 8/2/95

Date 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-25-95 to 8-2-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature] — Inspector's Signature

Commissions NB9318 93180 A,N,I — National Board, State, and Endorsements

Date August 16, 1995

PLAN No 2-1220

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 6/21/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Process Instrumentation (PI) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 2, 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
PI(1)-ST-(IR-64)-9	JCI	PI(1)-ST-(IR-64)-9	N/A	N/A	1978	Repair	Yes, Code Class 2

7. **Description Of Work Performed:** Made socket weld associated with valve PI-EFC-X66. The work was performed as follows
   1) Cut existing socket weld to provide access to troubleshoot valve PI-EFC-X66
   2) Prepped cut socket ends
   3) Performed PT examination on the final prepped socket ends. PT examination results acceptable
   4) Reinstalled valve and associated tubing
   5) Made required socket weld
   6) Performed PT examination on the final socket weld. PT examination results acceptable

PLAN No 2-122

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure: Psig Test Temperature: °F
Component Design Pressure: Psig Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh Signed By
Kuldip Singh - Materials And Inspection Manager, Materials And Inspection
Date 6/21/95 Date 6/21/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-31-95 to 6-21-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Carl F. Jam Commissions NB9318 W A,N,I
Inspector's Signature National Board, State, and Endorsements
Date 6-22-95

PLAN No 2-1225

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 7/10/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Reactor water Cleanup (RWCU) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
RWCU(1)-3A	WPPSS	RWCU(1)-3A-P2	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. **Description Of Work Performed:** Replaced bolting material for RWCU-FE-11 bolted flanged joint. The replacement work was performed as follows
   1) Installed one (1) new stud for the bolted flanged joint
   2) Installed two (2) new nuts for the bolted flanged joint

PLAN No 2-122

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] None
Test Pressure: Psig Test Temperature: °F
Component Design Pressure: Psig Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh Signed By
Kuldip Singh - Materials And Inspection Manager, Materials And Inspection
Date 8/2/95 Date 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 6-18-95 to 8-2-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

Carl F Jones Commissions NB9318 9318W A, N, I
Inspector's Signature National Board, State, and Endorsements
Date August 16, 1995

PLAN No 2-1226

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 8/1/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Residual Heat Removal (RHR) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 1, 1974 Edition with Summer 1976 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
RHR-V-53B	Anchor Darling	E-6330-2-1	N/A	N/A	1979	Repair	Yes, Code Class 1

7. **Description Of Work Performed:** Machined hardfaced seating surfaces on the existing disc for valve RHR-V-53B. The work was performed as follows
   1) Machined the upstream side of the hardfaced seating surfaces on the existing valve disc
   2) Performed PT examination on the final machined surfaces. PT examination results acceptable
   3) Machined the downstream side of the hardfaced seating surfaces on the existing valve disc
   4) Performed PT examination on the final machined surfaces. PT examination results acceptable
   5) Chamfered the edges on the existing valve disc
   6) Performed PT examination on the final chamfered edges. PT examination results acceptable
   7) Performed VT-3 visual examination on the existing valve disc. VT-3 visual examination results acceptable
   8) Performed VT-3 visual examination on the existing studs. VT-3 visual examination results acceptable
   9) Performed VT-3 visual examination on the existing nuts. VT-3 visual examination results acceptable
   10) Performed VT-3 visual examination on the accessible internal surfaces of existing valve body. VT-3 visual examination results acceptable
   11) Performed VT-3 visual examination on the accessible internal surfaces of existing valve bonnet. VT-3 visual examination results acceptable
   12) Reassembled the valve
   13) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the valve body to bonnet joint. No evidence of leakage during the pressure test

PLAN No 2-1226

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ None
Test Pressure: 1000 Psig
Component Design Pressure: 1550 Psig
Test Temperature: 535° F
Temperature: 575° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not Applicable
Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 8/2/95
Date 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 6-23-95 to 8-2-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

[signature]
Inspector's Signature
Commissions IVB 9318 9318W A, N, I
National Board, State, and Endorsements
Date August 16, 1995

PLAN No 2-1227

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) **Date:** 7/10/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not applicable
   (d) Certificate Of Authorization No.: Not applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Reactor water Cleanup (RWCU) System
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 3, 1971 Edition with Winter 1971 Addenda, Code Case: None
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
RWCU-HX-1B	General Electric	223396	54361	N/A	1972	Repaired	Yes, Code Class 3

7. **Description Of Work Performed:** Repaired channel head to diaphragm plate weld for heat exchanger RWCU-HX-1B. The repair work was performed as follows
   1) Removed the bolted flange cover from the channel head
   2) Performed MT examination on the channel head to diaphragm plate weld
   3) Removed unacceptable MT indications by mechanical means
   4) Prepared cavities for weld repair
   5) Performed MT examination on the cavities
   6) Weld repaired the cavities
   7) Performed MT examination on the final weld repaired areas. MT examination results acceptable on the final weld repaired areas
   8) Reinstalled the bolted flange cover on the channel head
   9) Installed twenty four (24) new studs for the bolted flanged cover joint
   10) Installed forty eight (48) new nuts for the bolted flanged joint
   11) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

PLAN No 2-1227

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [X] Other [ ] None

Test Pressure: 1000 Psig
Component Design Pressure: 1450 Psig
Test Temperature: 535° F
Temperature: 575° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this repair conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp: Not applicable
Certificate Of Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection
Signed By [signature] — Manager, Materials And Inspection
Date 8/2/95
Date 8/15/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 6-26-95 to 8-2-95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[signature]
Inspector's Signature
Commissions NB 9318 93180 A, N, E
National Board, State, and Endorsements
Date August 16, 1995

WO No RW 4101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. **Owner:** Washington Public Power Supply System (WPPSS) — **Date:** 7/13/95
   Address: 3000 George Washington Way, Richland, Washington, 99352 — **Sheet:** 1 of 1
2. **Plant:** Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) — **Unit:** WNP-2
   Address: Hanford Reservation, Benton County, Washington
3. **(a) Work Performed By:** Washington Public Power Supply System (WPPSS), 3000 George Washington Way, Richland, WA, 99352
   (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
   (c) Type Code Symbol Stamp: Not Applicable
   (d) Certificate Of Authorization No.: Not Applicable
   (e) Expiration Date: Not Applicable
4. **Identification Of System:** Main Steam (MS) System, ASME Section III, Code Class 3
5. **(a) Applicable Construction Code:** ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda*, Code Case: 1644-5
   (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: None
6. **Identification Of Components Repaired Or Replaced And Replacement Components**

Name Of Component	Name Of Manufacturer	Manufacturer's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Snubber	Pacific Scientific	291	N/A	PSA-10	1976	Replaced	No
Snubber	Pacific Scientific	11862	N/A	PSA-10	1981	Replacement	No

7. **Description Of Work Performed:** Replaced snubber for support MSRV-SB-3. The replacement work was performed as follows
   1) Removed existing snubber with Serial No 291
   2) Installed snubber with Serial No 11862 previously removed from support RHR-SB-32
   3) Performed operability test on the new snubber. Operability test was satisfactory
   4) Rear bracket and bolting from the original snubber Serial No 291 was installed on the new snubber Serial No 11862
   5) Final installation was visually examined in accordance with the Plant Technical Specification. Visual examination results acceptable

* - ASME Section III, Code class 3, 1971 Edition with Winter 1973 Addenda for the piping system MS(18)-2-14-P1

WO No RW 4101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

8 Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None

Test Pressure: Psig | Test Temperature: ° F

Component Design Pressure: Psig | Temperature: ° F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI

Type Code Symbol Stamp: Not Applicable

Certificate Of Authorization No.: Not Applicable

Expiration Date: Not Applicable

Prepared By Kuldip Singh — Kuldip Singh - Materials And Inspection

Signed By — Manager, Materials And Inspection

Date 7/13/95

Date 7/13/95

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5/11/95 to 7/13/95 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection

Howard D Haston — Inspector's Signature

Commissions 9600W NI — National Board, State, and Endorsements

Date July 13, 1995