### INSERVICE INSPECTION SUMMARY REPORT FOR

#### **REFUELING OUTAGE RF95**

9509180381 950912 PDR ADDCK 05000397

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:

Reviewed &

Concurred

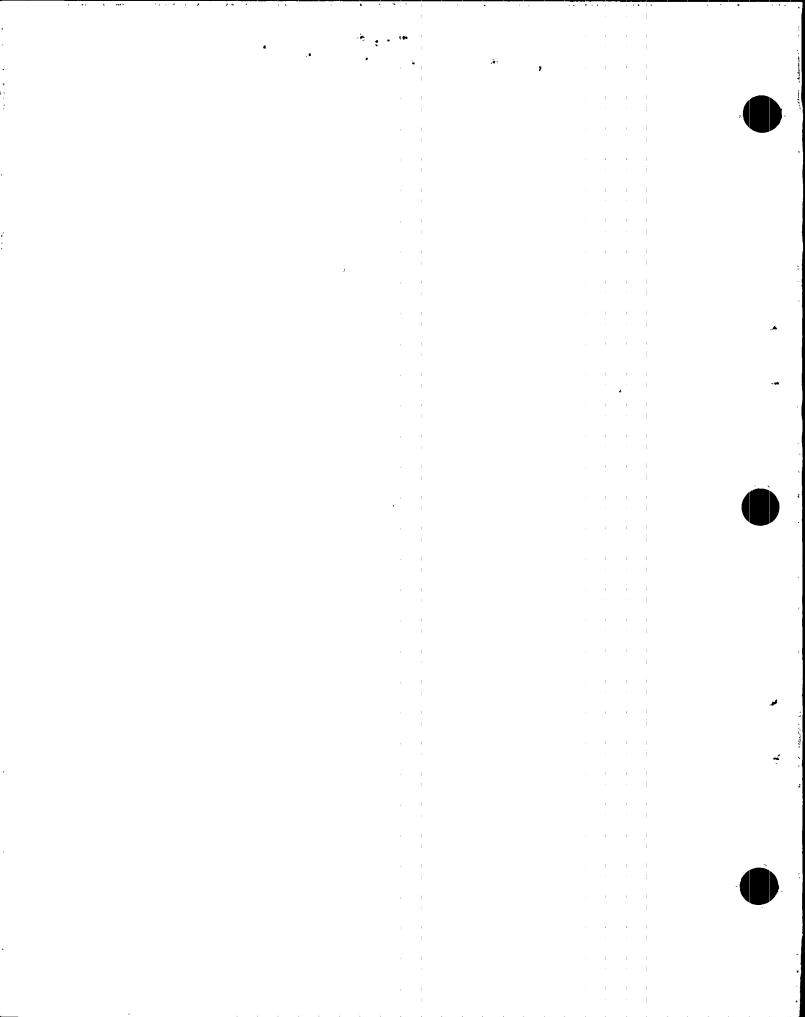
By:

lanager, Ouality Support Services

Supervisor, Materials and Inspection

Concurrence:

Authorized Nuclear Inservice Inspector



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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.

- o IGSCC (intergranular stress corrosion cracking) detection in stainless steel welds, based on Generic Letter 88-01.
- o Visual examination of the core spray spargers and supply piping in the reactor pressure vessel.
- o Feedwater nozzle inner radius and bore region for NUREG 0619.
- o 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.



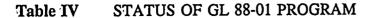
Catego	ry Item No.	Description	Complete
B-D	Full Penetration We	elds of Nozzles in Vessels	
	B3.100	Nz Inside Radius Section	1
B-F		Dissimilar Metal Welds	
	B5.10	RPV - eq or > 4 NPS Nz-to-SE Butt	1
	B5.130	Piping - eq or > 4 NPS Dissimilar	6
		Metal Butt Welds	
B-G-2	Pressure Retaining	Bolting, 2 in. and less in dia.	
	B7.70	Valves - Bolts, Studs, and Nuts	2
B-J	Pressure Retaining		
	B9.11	Circumferential Welds - NPS 4 or	22
		Larger	
	B9.12	Longitudinal Welds - NPS 4 or Larger	2
	<b>B9.31</b>	Branch Connections NPS 4 or Larger	1
	B9.32	Branch Connections Less Than NPS 4	1
B-K-1		s for Piping, Pumps, and Valves	_
	B10.10	Piping - Intg Welded Att	3
2262	B10.20	Pumps - Intg Welded Att	1
B-M-2	Valve Bodies	TI	
D.D.	B12.50	Valve Body - > NPS 4	1
B-P	All Pressure Retaini		
	B15.10	RPV - Pressure Retaining Boundary	2
	B15.50	Piping - Pressure Retaining Boundary	31
	B15.60	Pumps - Pressure Retaining Boundary	1 75
CC	B15.70	Valves - Pressure Retaining Boundary	75
C-Ċ	C3.20	ls, Piping, Pumps, and Valves	6
	C3.20	Piping - Integrally Welded Attachments	o .
C-F-2	Pressure Retaining	Welds in Carbon Piping	
0-1-2	C5.51	Piping Welds - > 4 NPS, eq or > 3/8	15
	05.51	Nom. Wall Thk Circumferential	10
	C5.52	Piping Welds - > 4 NPS, eq or > 3/8	13
		Nom. Wall Thk Longitudinal	•
	C5.81	Pipe Branch Connections of Branch	1
		Piping 2 NPS or Greater -	
F-A	Supports.		
	F1.10A	Cl 1 piping supports, rigid, strut, anchor, rod	,
	F1.10C	Cl 1 piping supports, spring	<b>1</b> <sup>e</sup>
	F1.10D	Cl 1 piping supports, snubbers	1
	F1.20A	Cl 2 piping supports, rigid, strut,	10
		anchor, rod	
	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 R	10
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ISI Identification No.	ISI Diagram No.	<u>Pg</u>
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.	<u>Pg</u>
24RRC(1)A-13/4RRC(8)-4S	В	RRC-101	2
24RRC(1)A-20/12CAP	В	RRC-101	2
20RRC(6)-8	F	RRC-105	
4RRC(4)A-1	В	RRC-108	
4RRC(4)A-5	В	RRC-108	
4RRC(4)A-9	В	RRC-109	
4RRC(4)A-11	В .	RRC-109	



Category (Total #) A (57) B (147)	Required within 6 yrs <sup>1</sup> 7 37	Required within 10 yrs <sup>1</sup> 14 74	WNP-2 Status through R10 (After 6 yrs) <sup>1</sup> 37 <sup>2</sup> 61
Category (Total #) <sup>3</sup> C (25)	Required within 2 RO 25	•	WNP-2 Status through R10 (After 1 RO) 8
Category (Total #) <sup>4</sup> F (1)	Required within 1 yrs		WNP-2 Status through R10 (After 1 yr)

<sup>1</sup> WNP-2 commitment began at R4

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

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

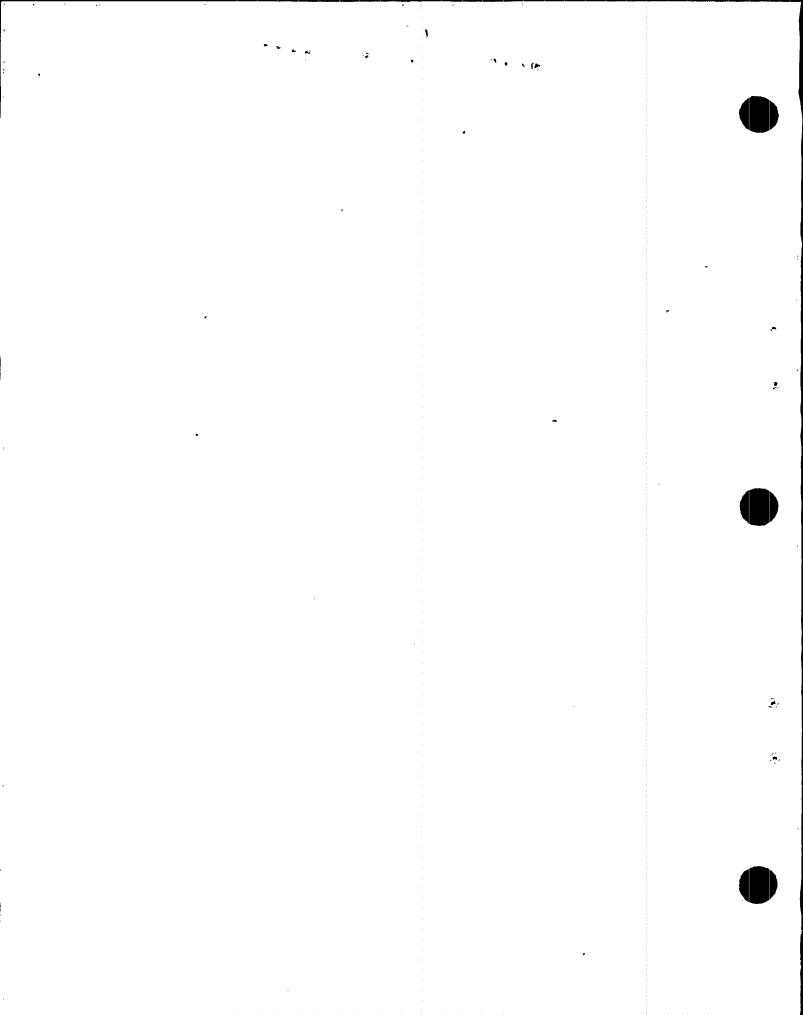
This category "F" weld was reclassified from category "B" at R6.

Table V	HIGH ENERGY	LINE BREAK	WELDS	<b>EXAMINED</b>	AT R10
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ISI Identification No.	ISI Diagram No.	<u>Pg</u>	ļ	ļ	ļ
2MS(20)A-1	MS-201	5	I .	I .	Į,
2MS(20)A-2	MS-201	5	1	1	1
26MS(1)A-18	MS-201	1		1	1
26MS(1)A-19	MS-201	i	1		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			
6RWCÙ(2)-1	RWCU-303	3	1	1	1
6RWCU(2)-2	RWCU-303	3	1	1	1
6RWCU(2)-3	RWCU-303	3	1	1	1
6RWCU(2)-4	RWCU-303	3	1	1	1
6RWCU(2)-9	RWCU-303	3	1	1	1
•					

### APPENDIX A

NIS-1 Owner's Report for Inservice Inspection





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

Owner Certificate of Authorization: NA
 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.	1. 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.					
Plan ASM Cert	certify that a) statements made in this report are correct b) the examinations and tests meet the Inspection as required by ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ME Code, Section XI.  tificate of Authorization No. (if applicable) NA Expiration Date NA  e					
Insp Eng Data belid in a By a cond neit	CERTIFICATE OF INSERVICE INSPECTION  the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel electors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual Energing Association) of Norwood, Massachusetts have inspected the components described in this Owner's a Report during the period 9-23-94 to 6-24-95, and state that to the best of my knowledge and lef, the Owner has performed examinations and taken corrective measures described in this Owner's Report accordance with the Inspection Plan and as required by the ASME Code, Section XI.  signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, therefore the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, there the Inspector nor his employer shall be liable in any manner for any personal injury or property damage closs of any kind arising from or connected with this inspection.					

DPX



- 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 SHUBBER	429	4/24/95
FPC-918N	UA	PSA-1 SNUBBER	114	4/25/95
HPCS-924N	W	PSA-3 SNUBBER	3883	4/24/95
HD-1285-14C	ÜA	PSA-1/4 SNUBBER	19886	4/26/95
HD-1288-18	UA	PSA-1/4 SHUBBER	287	4/25/95
HS-1369-13	UA	PSA-1/2 SKUBBER	2147	4/26/95
NS-999N	UA	PSA-10 SNUBBER	328	4/26/95
HS-SC-3	UA	PSA-35 SHUBBER	4156	5/01/95
HSRV-1D-3	UA	PSA-10 SHUBBER	9930	4/27/95
HSRV-2C-5	UA	PSA-10 SHUBBER	9921	4/26/95
HSRV-2C-7	ÜA	PSA-10 SNUBBER	9926	4/27/95
HSRV-3C-2	UA	PSA-10 SKUBBER	4865	4/28/95
HSRV-58-3	UA	PSA-10 SNUBBER	291	4/28/951
NSRV-58-3	UA	PSA-10 SHUBBER	11862	4/29/95
RCIC-1	UA	PSA-1 SMUBBER	587	4/24/95
RFW-162	ŭ`	PSA-10 SMUBBER	132	4/29/95
RHR-150	SE	PSA-3 SHUBBER	656	4/24/95
RHR-2264-22	ÜĀ	PSA-1 SMUBBER	352	4/27/95
RHR-244	UA	PSA-35 SKUBBER	12713	4/25/95
RHR-271	X	PSA-3 SHUBBER	3885	4/24/95
RHR-273	ÜA	PSA-3 SHUBBER	508	4/25/95
'RHR-361	UA	PSA-3 SMUBBER	2786	4/24/95
RHR-419	Ÿ.	PSA-3 SNUBBER	4475	4/24/95
RHR-443	ÜA	PSA-1/2 SHUBBER	2156	4/26/95
RHR-453	UA	PSA-1/4 SHUBBER	6210	4/24/95
RHR-479	Ē	PSA-3 SMUBBER	620	4/25/95
RHR-494	ÜA	PSA-10 SHUBBER	13034	4/27/95
RHR-495	BH	PSA-35 SHUBBER	6175	4/27/95
RHR-52	UA	PSA-3 SHUBBER	4463	4/26/95
RHR-902N	UA	PSA-10 SHUBBER	303	4/24/95
RHR-914N	UA	PSA-10 SHUBBER	103	4/24/95
RHR-954N	v ·	PSA-1 SHUBBER	125	4/24/95
RHR-980N	ÜA	PSA-10 SHUBBER	11850	4/25/95
RHR-SA-34	UA	PSA-35 SNUBBER	9261	4/27/95
RHR-SA-50	UA	PSA-35 SHUBBER	6095	4/27/95
RRC-1C-900N	TP	PSA-1 SXUBBER	583	4/28/95
RWCU-1C-8	ÜA	PSA-3 SNUBBER	2587	5/09/95
SW-29	NV	PSA-10 SNUBBER	4859	4/26/95

KEY

BM	Bottom	SE	South	east
Ε	East		SW	Southwest
H	North		TP	Тор
NE	Northeast		UA	Unassigned - consists of a single snubber
NИ	Northwest		W	West
S	South			

Notes to snubber functional testing

All snubb: 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.

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 RE

#### RT FOR INSERVICE INSPECTIONS

1. Owner: Washington Public Power Supply System, 3000 Georgan Shington Way, Richland, 2. Plant: WNP-2, Hanford Reservation, Benton County, Washington Statement Statem shington Way, Richland, Washington 99352

5. Commercial Service Date: December 13, 1984

13. Abstract of Examinat	ions and Tes	its.	· · · · · · · · · · · · · · · · · · ·	1 1	1 1	1 ! ! !	į	
Identification No.		Description	Diagram No.	Pa	Method	Report No.	Date	Results(1)
Examination Category:	B-D		1	_				
Item No. B3.100	5.5							
N4-150-IR		FW NZ-IR @ 150	RPV-101		VOL	2RPU-001	5/7/95	Α
Examination Category:	B-F							
Item No. B5.10	D*r	•	•					
12RFW(1)AC-13		SE TO N4	RFW-101	05	SUR	2FWP-003	5/6/95	A
12.11 11 (1) 10 10		- <u>-</u>	•		VOL	R-R10-027	5/16/95	Α
Item No. B5.130								
10LPCS(1)-3		SE EXT TO SE	LPCS-101	02	SUR'	2LPP-001	5/8/95	Α
					VOL	R-R10-023	5/15/95	Α
12RFW(1)AC-12		SE/STUB TO SE	RFW-101	05	SUR	2FWP-003	5/6/95	Α
			1		VOL	R-R10-026	5/16/95	Α
12RFW(1)AB-9		SE EXT-SE STUB	RFW-101	04	SUR	2FWP-005	5/6/95	Α
					VOL	R-R10-024	5/14/95	Α
12RFW(1)AB-10		SE STUB TO SE	RFW-101	04		2FWP-005	5/6/95	A
		020,00,00		•	VOL	R-R10-025	5/15/95	Α
12RFW(1)AA-9		SE EXT-SE STUB	RFW-101	03	SUR	2FWP-004	5/6/95	Α.
			1000,100	-	VOL	R-R10-022	5/14/95	Α
12RFW(1)AA-10		SE STUB-SE	RFW-101	03	SUR	2FWP-004	5/6/95	Α
		0001000	100 100	•	VOL	R-R10-018	5/13/95	A
Examination Category:	8-G-2		1 1		100	1.4110-010		
Item No. B7.50	D+G+2		1		1 1			
.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-027	5/11/95	A(7)
8MSR-5B-2BD		FLANGE BOLTING	MS-101	01	VT-1	2MSV-023	5/12/95	A(7)
. 6MSR-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 MS-102	01	VT-1	2MSV-019	5/11/95	A(7)
8MSR-5C-2BD		FLANGE BOLTING	MS-102 MS-103	01	VT-1	2MSV-007	5/11/95	A(7)
			MS-103	01	VT-1	2MSV-009	5/11/95	A(7)
8MSR-4C-2BD		FLANGE BOLTING	MS-103				5/11/95	A(7)
8MSR-3C-2BD		FLANGE BOLTING		01	VT-1	2MSV-011	5/11/95	
8MSR-2C-2BD		FLANGE BOLTING	MS-103	01	VT-1	2MSV-013		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		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)



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

6. National Board Number: NA 5. Commercial Service Date: December 13, 1984

13. Abstract of Examinati	ons and les							
identification No.		<u>Description</u>	<u>Diagram No.</u>	Pa	<u>Method</u>	Report No.	<u>Date</u>	Results(1)
Examination Category:	B-G-2	·						
ttem 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		<b>VALVE BOLTING</b>	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	Α
RHR-V-50B-BLT		VALVE BOLTING	RHR-106		VT-1	2RHV-002	5/15/95	Α
Examination Category:	B√							
Item No. B9.11					4			
12HPCS(1)-6		ELL TO PIPE	HPCS-101	01	SUR	2HPM-001	5/6/95	Α
			•		VOL	2HPU-001	5/6/95	Α
•		_				2HPU-003	5/6/95	Α
12HPCS(1)-7		PIPE TO ELL	HPCS-101	01	SUR	2HPM-001	5/6/95	A
					VOL	2HPU-002	5/6/95	Α -
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	Α
					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

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

- 6. National Board Number: NA 5. Commercial Service Date: December 13, 1984

10. Applied of Exemple				-				
Identification No.		<u>Description</u>	Diagram No.	Pa	<u>Method</u>	Report No.	<u>Date</u>	Results(1)
Examination Category:	<b>B-1</b>							
item No. B9.11			1			,		
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	Α
12RFW(1)AC-7		ELL TO PIPE	RFW-101	05	SUR	2FWM-003	4/29/95	Α
					VOL	2FWU-002	5/1/95	A
			i i			2FWU-003	5/2/95	A
12RFW(1)BD-1		REDUCER TO PIPE	RFW-102	03	SUR	2FWP-002	5/4/95	Α
					VOL	2FWU-007	5/4/95	Α
6RFW(11)-1		VALVE TO PIPE	RFW-103		SUR	2FWP-006	5/17/95	Α
					VOL	2FWU-009	5/17/95	Α
						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	· <b>A</b>
						2FWU-011	5/19/95	Α
14LPCI(1)A-1		VLV TO PIPE	RHR-101		SUR	2RHM-007	5/2/95	Α
• •			1		VOL	2RHU-007	5/7/95	Α
20RHR(2)-11		ELL TO PIPE	RHR-104		SUR	2RHM-003	4/27/95	A
• • • • • • • • • • • • • • • • • • • •			1		VOL	2RHU-001	4/28/95	A
20RHR(2)-12		PIPE TO PEN	RHR-104		SUR	2RHM-001	4/27/95	A
• • • • • • • • • • • • • • • • • • • •			1		VOL	2RHU-002	4/28/95	Α'
12RHR(1)A-11		PIPE TO ELL	RHR-105		SUR	2RHM-002	4/27/95	A <sup>-</sup>
(.,		<u>- ;</u>			VOL	2RHU-003	4/28/95	A
4RRC(51)-6		PIPE TO VALVE	RRC-104		SUR	2RRM-001	5/16/95	A
*			11.10-10-7		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	Α
411110(4)5-0		1 11 5 10 555	iii.		VOL		5/12/95	A
4RRC(4)B-11		PIPE - VALVE SE	RRC-109		VOL	R-R10-017	5/12/95	A
Item No. B9.12		LILE - AVEAC OF	VVĆ-109		VOL	R-R10-020	31233	^
12HPCS(1)-6LUO		ELL SEAM	HPCS-101	01	SUR	2HPM-001	5/6/95	A
12111 00(1)-0200		CLL SEAM	HPC5-101	Ģί	VOL	2HPU-004	5/6/95	Ā
12HPCS(1)-6LUI		ELL SEAM	UDCC 101	01			5/6/95	•
12111 00(1)-0001		ELL SEAM	HPCS-101	01	VOL	2HPM-001 2HPU-004	5/6/95	A A
Item No. B9.31		*	1		VOL	4HPU-004	3/0/33	^
	44\ 4	DIDE TO MOI	RFW-101	04	CUD	00404004	EHINE	
24RFW(1)A-1/5RFW(	11)-4	PIPE TO WOL	KPW-101	01	SUR	2FWM-004	5/1/95	A
W W 55.55					VOL	2FWU-004	5/2/95	A
Item No. B9.32							54 m5	
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		434001000000000			0115		ener	<b>A</b>
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



Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
 Plant: WNP-2, Hanford Reservation, Benton County, Washington
 Plant Unit: WNP-2
 Owner Certificate of Authorization: NA

5. Commercial Service Date: December 13, 1984 6. National Board Number: NA

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Identification No.		<u>Description</u>	<u>Diagram No.</u>	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	Ą
						2RHV-004	6/24/95	A
Examination Category:	B-P							
Item No. B15.10								4 401
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)

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 Examination	ons and les								5
Identification No.		<u>Description</u>		<u>Diagram No.</u>	Pg	<u>Method</u>	Report No.	<u>Date</u>	Results(1)
Examination Category:	В-Р								
Item No. B15.50								C 100 10C	A (O)
SLC-PB-101(L)		LK PRES BNDRY		SLC-101		VI-2	2VT2-95	5/29/95	A(3)
Item No. B15.70								E-00 K)E	
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	VI-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	Vr-2	2VT2-95	5/29/95	A
MS-RV-4A-BDY(L)		LK PRES TEST		MS-101	01	Vľ-2	· 2VT2-95	5/29/95	A
MS-RV-3A-BDY(L)		LK PRES TEST		MS-101	01	VT-2	2V12-95	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	. <b>A</b>
MS-V-22A-BDY(L)		LK PRES TEST		MS-101	02	VT-2	2VT2-95	5/29/95	Α
MS-V-28A-BDY(L)		LK PRES TEST		MS-101	02	VT-2	2VT2-95	5/29/95	Α
MS-RV-5B-BDY(L)		LK PRES TEST		MS-102	01	VT-2	2VT2-95	5/29/95	Α
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	À
MS-RV-2B-BDY(L)		LK PRES TEST		MS-102	01	VT-2	2VT2-95	5/29/95	Α
MS-RV-1B-BDY(L)		LK PRES TEST		MS-102	01	VT-2	2VT2-95	5/29/95	Α
MS-V-22B-BDY(L)		LK PRES TEST		MS-102	02	VT-2	2VT2-95	5/29/95	Α
MS-V-28B-BDY(L)		LK PRES TEST		MS-102	02	VT-2	2VT2-95	5/29/95	Α
MS-RV-5C-BDY(L)		LK PRES TEST		MS-103	01	VT-2	2VT2-95	5/29/95	Α
MS-RV-4C-BDY(L)		LK PRES TEST		MS-103	01	VT-2	2VT2-95	5/29/95	Α
MS-RV-3C-BDY(L)		LK PRES TEST		MS-103	.01	VT-2	2VT2-95	5/29/95	Α
.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	2V12-95	5/29/95	Α
MS-V-22C-BDY(L)		LK PRES TEST		MS-103	02	VT-2	2V12-95	5/29/95	Α
MS-V-28C-BDY(L)		LK PRES TEST		MS-103	02	VT-2	2VT2-95	5/29/95	Α
MS-RV-4D-BDY(L)		LK PRES TEST		MS-104	01	VT-2	2VT2-95	5/29/95	Α
MS-RV-3D-BDY(L)		LK PRES TEST		MS-104	01	VT-2	2VT2-95	5/29/95	Α
MS-RV-2D-BDY(L)		LK PRES TEST		MS-104	01	VT-2	2VT2-95	5/29/95	Α
MS-RV-1D-BDY(L)		LK PRES TEST		MS-104	01	VT-2	2VT2-95	5/29/95	Α
MS-V-22D-BDY(L)		LK PRES TEST		MS-104	02	VT-2	2VT2-95	5/29/95	Α
MS-V-28D-BDY(L)		LK PRES TEST		MS-104	02	VT-2	2VT2-95	5/29/95	Α
RCIC-V-63-BDY(L)		LK PRES TEST		RCIC-101	01	VT-2	2VT2-95	5/29/95	Α
RCIC-V-64-BDY(L)		LK PRES TEST		RCIC-101	01	VT-2	2VT2-95	5/29/95	Α
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
		LK PRES TEST		RCIC-102	01	VT-2	2VT2-95 2VT2-95	5/29/95	A
RCIC-V-65-BDY(L)					03	VT-2	2VT2-95	5/29/95	A
RCIC-V-66-BDY(L)		LK PRES TEST		RCIC-102	01	VT-2	2VT2-95 2VT2-95	5/29/95	Ā
RFW-V-65A-BDY(L)		LK PRES TEST		RFW-101				5/29/95	Ā
RFW-V-32A-BDY(L)	ŀ	LK PRES TEST		RFW-101	01	VT-2	2VT2-95	W43/33	^



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

Identification No.	•	Description	Diagram No.	Da	Mathod	Panort No.	Date	Results(1)
Identification No.		Description	Diadicitito	174	Wellind	Report No.	<u>Date</u>	IZC 30 (13(1)
Examination Category: Item No. B15.70	B-P							
RFW-V-10A-BDY(L)		LK PRES TEST	RFW-101	01	VT-2	2VT2-95	5/29/95	Α
RFW-V-11A-BDY(L)		LK PRES TEST	RFW-101	01	VT-2	2VT2-95	5/29/95	A
• •		LK PRES TEST	RFW-102	01	VT-2		5/29/95	A
RFW-V-65B-BDY(L)		LK PRES TEST	RFW-102	01	VT-2	2VT2-95 2VT2-95	5/29/95	Ā
RFW-V-32B-BDY(L)					VT-2		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		2VT2-95	5/29/95	A
RWCU-V-40-BDY(L)		LK PRES TEST	RFW-103		VT-2	2VT2-95		
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-428-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	Α
RHR-V-42C-BDY(L)		LK PRES TEST	RHR-103		VT-2	2VT2-95	5/29/95	Α
RHR-V-41C-BDY(L)		LK PRES TEST	RHR-103		VT-2	2VT2-95	5/29/95	Α
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	Α
RHR-V-9-BDY(L)		LK PRES TEST	RHR-104		VT-2	2VT2-95	5/29/95	· <b>A</b>
RHR-V-8-BDY(L)		LK PRES TEST	RHR-104		VT-2	2VT2-95	5/29/95	<b>A</b>
RHR-V-53A-BDY(L)		LK PRES TEST	RHR-105		VT-2	2VT2-95	5/29/95	Α
RHR-V-50A-BDY(L)		LK PRES TEST	RHR-105		VT-2	2VT2-95	5/29/95	Α
RHR-V-112A-BDY(L)		LK PRES TEST	RHR-105		VT-2	2VT2-95	5/29/95	Α
RHR-V-53B-BDY(L)		LK PRES TEST	RHR-106		VT-2	2VT2-95	5/29/95	Α
RHR-V-50B-BDY(L)		LK PRES TEST	RHR-106		VT-2	2VT2-95	5/29/95	Α
RHR-V-112B-BDY(L)		LK PRES TEST	RHR-106		VT-2	2VT2-95	5/29/95	Α
RRC-V-23A-BDY(L)		LK PRES TEST	RRC-101	01	VT-2	2VT2-95	5/29/95	Α
RRC-V-60A-BDY(L)		LK PRES TEST	RRC-101	02	VT-2	2VT2-95	5/29/95	Α
RRC-V-67A-BDY(L)		LK PRES TEST	RRC-101	02	VT-2	2VT2-95	5/29/95	Α
RRC-V-23B-8DY(L)		LK PRES TEST	RRC-102	01	VT-2	2VT2-95	5/29/95	Α
RRC-V-60B-BDY(L)		LK PRES TEST	RRC-102	02	VT-2	2VT2-95	5/29/95	Α
RRC-V-67B-BDY(L)		LK PRES TEST	RRC-102	02	VT-2	2VT2-95	5/29/95	Α
RWCU-V-102-BDY(L)	ı	LK PRES TEST	RWCU-101	02	VT-2	2VT2-95	5/29/95	Α
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			•••	••-	20.2.50		
Item No. C3.20	0.0							
MS-114(W)		8 WELDED LUGS	MS-201	02	SUR	2MSM-005	4/25/95	Α
MS-89(W)		4 WELDED LUGS	MS-201	04	SUR	2MSM-007	4/26/95	Α
MS-147(W)		8 WELDED LUGS	MS-202	03	SUR	2MSM-008	4/26/95	Α
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		03	SUR	2RHM-005	5/1/95	A
, , ,								

4/25/95

2MSU-007

VOL

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

Owner: Washington Public Power Supply System, 3000 George Washington Way, Richland, Washington 99352
 Plant: WNP-2, Hanford Reservation, Benton County, Washington
 Plant Unit: WNP-2
 4, Owner Certificate of Authorization: NA

6. Commercial Service Date: December 13, 1984 6. National Board Number: NA

13. Abstract of	<b>Examinations</b>	and Tests.
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Identification No.		Description	Diagram No.	Pa	Method	Report No.	Date	Results(1)
Examination Category:	C-F-2		1 1	1	1 1 1	1 1 1		
Item No. C5.51								
30MS(1)A-8		ELL TO PIPE	MS-201	02	SUR	2MSM-003	4/24/95	Α
		•			VOL	2MSU-003	4/25/95	Α
30MS(1)A-13		ELL TO PIPE	MS-201	02	SUR	2MSM-006	4/25/95	Α
			•		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	Α
30MS(1)B-20		ELL TO PIPE	MS-202	03	SUR	2MSM-001	4/24/95	Α
					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	Α
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)8·27		PIPE TO ELL	MS-202	04	SUR	2MSM-004	4/25/95	Α
					VOL	2MSU-016	4/26/95	Α
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	Α
• •					VOL	2RHU-009	5/13/95	A
18RHR(1)A-1		REDUCER TO PIPE	RHR-201	01	SUR	2RHM-008	5/13/95	Α
• • •					VOL	2RHU-008	5/13/95	Α
18RHR(1)A-8		PIPE TO TEE	RHR-201	01	SUR	2RHM-010	5/16/95	Α
					VOL	2RHU-010	5/16/95	Α
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	Α
• • •					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	Α
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
00.110(1)/1 0200		756 ò D 1111		-	VOL	2MSU-012	4/25/95	A
30MS(1)A-8LD		PIPE LONG SEAM	MS-201	02		2MSM-003	4/24/95	A
00M0(1)/10LD		THE CONTO OLD AN	1110-201		VOL	2MSU-011	4/25/95	A
30MS(1)A-13LUO		ELL SEAM	MS-201	02		2MSM-006	4/25/95	A
001110(1),111000	1				VOL	2MSU-013	4/26/95	A
30MS(1)A-13LD		PIPE LONG SEAM	MS-201	02		2MSM-006	4/25/95	A
20113(1)A-13LD		FILE FOUR SEVIA	1110-201	JŁ	VOL	2MSU-013	4/26/95	A
30M6/47B-40111		DIDE LONG SEAR	M8-202	03	SUR		4/24/95	A
30MS(1)B-19LU		PIPE LONG SEAM	MS-202	w	VOI	2MSM-001	40505	^^



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

Identification No.		Description	Dłagram No.	Da	Mathad	Donard No.	Data	Dacute(4)
Identification No.	0.50	<u>pescribitori</u>	Pingliani iso.	EU	Method	Report No.	Date	Results(1)
Examination Category: ttem No. C5.52	C-F-2							
30MS(1)B-19LDO		ELL SEAM .	MS-202	03	SUR	244014.004	4/24/95	A
20M2(1)p-13EDO		ELL SEXIA	M3-202	us		2MSM-001	4/25/95	
20140/420 001110		511 05111	110.000	••	VOL	2MSU-006		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	14/25/95.	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	Α
					VOL	2MSU-014	4/26/95	Α
30MS(1)B-28LUO		ELL SEAM	MS-202	04	SUR	2MSM-004	4/25/95	Α
					VOL	2MSU-014	4/26/95	Α
30MS(1)B-28LD		PIPE LONG SEAM	MS-202	04	SUR	2MSM-004	4/25/95	Α
					VOL	2MSU-014	4/26/95	Α
Item No. C5.81			•					
30MS(1)B-24/6MS(1)-	4	WOL TO PIPE	MS-202	04	SUR	2MSM-004	4/25/95	Α
Examination Category:	F-A							
Item No. F1.10A	•							
HPCS-911N		RIGID STRUT	HPCS-101	01	VT-3	2HV-007	4/26/95	Α
MS-SA-1		STRUT	MS-101	02	VT-3	2HV-009	4/26/95	Α
MS-SA-2		STRUT	MS-101	02	VT-3	2HV-010	4/26/95	Α
Item No. F1.10C								
RFW-175		SPRING	RFW-102	05	VT-3	2HV-006	4/26/95	Α
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	Α
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	Α
HPCS-13		ANCHOR	HPCS-202	02	VT-3	2HV-003	4/25/95	Α
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	Α
MS-89		SPRING	MS-201	04	VT-3	2HV-004	4/24/95	Α
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	Α
MSRV-3A-4		STRUT	MS-303	02	VT-3	2HV-013	4/26/95	A

- 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

- 4. Owner Certificate of Authorization: NA r 13, 1984 6. National Board Number: NA 5. Commercial Service Date: December 13, 1984

#### 13. Abstract of Examinations and Tests.

Identification No.		Description	Diagram No.	Pa	Method	Report No.	Date	Results(1)
Examination Category:	·F-A		1					
Item No. F1.30A						*		
SW-153		вох	SW-303	02	VI-3	2HV-035	5/2/95	A
SW-198		вох	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	Α
MS-270		SPRING	MIS-302	02	VI-3	2HV-011	4/26/95	A
Item No. F1.30D								
MSRV-5B-3		PSA-10 SNUBBER	MIS-309	01	VI-3	2HV-039	4/29/95	A(7)
1000 No 51 40A								
7-P-1(CS)		PUMP BASE	HPCS-201	02	VI-3	2HV-001	4/25/95	A
(CS) نات ا		PUMP BASE	LPCS-201	02	V1-3	2HV-040	5/12/95	Α
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		VI-3	2HV-026	5/1/95	A
RHR-P-2C(CS)		RHR PUMP BASE	RHR-213		VT-3	2HV-027	5/1 <i>1</i> 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		VI-3	2HV-025	5/1 <i>1</i> 95	A
RPV STAB 45		STABLIZER	RPV-101		VT-3	2HV-047	5/16/95	A
RPV STAB 135		STABLIZER	RPV-101		VI-3	2HV-043	5/16/95	Α
RPV STAB 225		STABLIZER	RPV-101		VT-3	2HV-050	5/16/95	Α
RPV STAB 315		STABLIZER	RPV-101		VT-3	2HV-045	5/16/95	Ą
RPV STAB 0		STABLIZER	RPV-101		VT-3	2HV-046	5/16/95	À
RPV STAB 90		STABLIZER	RPV-101		VI-3	2HV-048	5/16/95	Α
RPV STAB 180		STABLIZER	RPV-101		VT-3	2HV-049	5/16/95	Α
RPV STAB 270		STABLIZER	RPV-101		VT-3	2HV-044	5/16/95	Α
RPV(CS)		SKIRT & BAS PLT	RPV-101		VI-3	2HV-015	4/28/95	Α
RRC-RB-1		STRUT	RRC-103		<b>VĨ-3</b>	2HV-030	5/2/95	A
SLC-TK-1(CS)		SLC TK SUPPORT	SLC-101	06	VT-3	2HV-036	5/3/95	<b>.</b> A
SW-P-1A(CS)		PUMP BASE	SW-301	01	VT-3	2HV-024	5/2/95	Α
SW-P-1B(CS)		PUMP BAŞE	SW-305	01	Vr-3	2HV-023	5/2/95	Α
Item No. F1,40D								
RRC-SB-3		PSA-100 SNUBBER	RRC-103		VT-3.	2HV-031	5/2/95	Ά
RRC-SB-4		PSA-100 SNUBBER	RRC-103		Vr-3	2HV-032	5/2/95	Α
RRC-SB-5		PSA-100 SNUBBER	RRC-103		VI-3	2HV-029	5/2/95	Α
RRC-SP-6		PSA-100 SNUBBER	RRC-103		VT-3	2HV-033	5/2/95	Α

		_	
N	~	^	e
IV	w		2

A = Acceptable R = Rejectable

(1) (2) (3) Resizing of indication found in refuel outage 6. Analysis found indication acceptable for continued service

Includes item number B15.70 valves, NPS 4 inch and smaller, within examination boundary.

10 CRD flanges found leaking at various rates

Examination did not cover entire examination volume due to installed vibration dampers.

.Not used

Preservice Inspection Examination

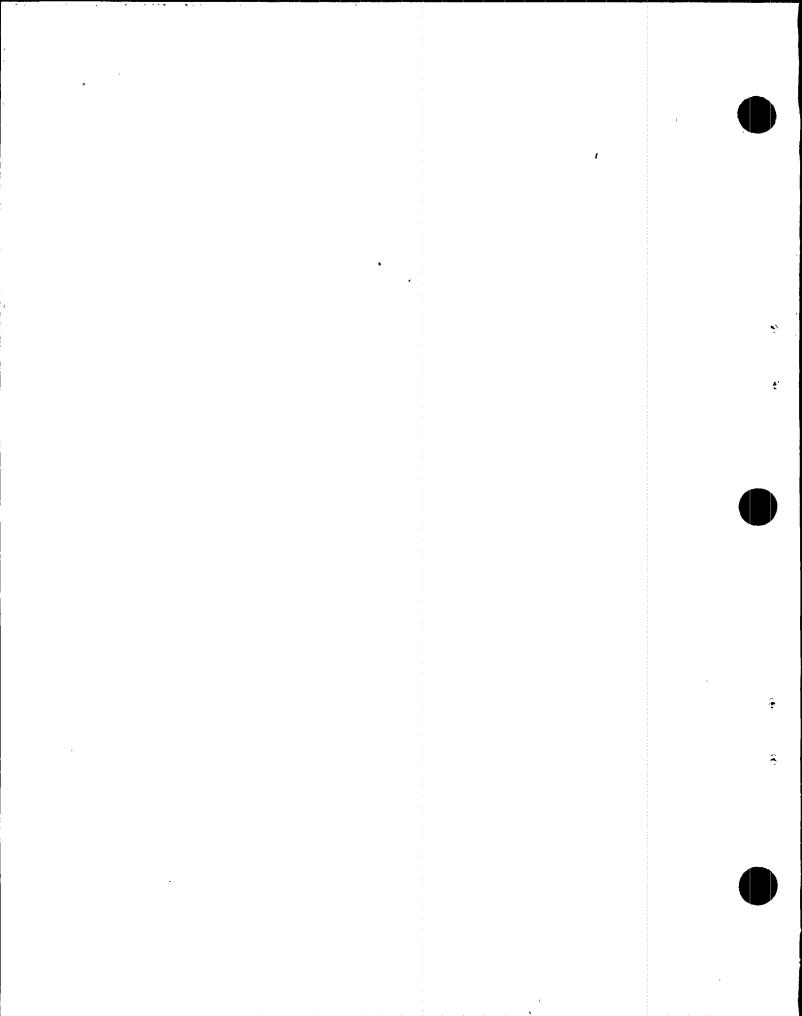


- Owner: Washington Public Power Supply System, 3000 George Washington Way, PO Box 968, Richland, Washington 99352
- 2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
- 3. Plant Unit: WNP-2
- 4. Owner Certificate of Authorization: NA
- 5. Commercial Service Date: 12/13/84
- 6. National 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, 85.10) full Code examination volume not achieved.
- 15. Abstract of Corrective Measures continued.
  - 2) Relief Request 21SI-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.





Identification No.	Description	Code Cate.	Item No.	<u> Meth</u>	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
	> Item desc	·	Section XI Co		> Examinat	ion method	· No reco	Indication	on below rocedure VI	Indication does not fit into the other three categories ion caused by part geometry  100% DAC for UT is recordable. Recordable indication for
> Item ISI Program	Plan identification	an numbe	r							

Identification No.	Description	Code Cate.	Item No.	<u> Heth</u>	Data Rpt. No.	<u>Noind</u>	Insig Geom	<u>Other</u>	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	RIGIÐ	F:A	F1.20A	VT-3	2HV-017	ACC			No recordable indications
.G604	RIGID	F-A	F1.20A	ÝT-3	2HV-018	ACC		•	No recordable indications
ISI Diagram No. HPCS-101	I								
HPCS-V-4-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC			No recordable indications
12HPCS(1)-6LUO	ELL SEAH	B-J	в9.12	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	2HPH-001 2HPU-004	ACC 45			No recordable indications. No recordable indications.
12HPCS(1)-6	ELL TO PIPE	B-J	в9.11	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.
			= -		Page B-2				
					Page 8-2				



Identification No.	Description	Code Cate.	Item No.	<u> Heth</u>	Data Rpt. No.	<u> Noind</u>	<u>Insig</u>	Geom	<u>Other</u>	Remarks
HPCS-V-5-BDY(L)	LK PRES TEST	в-Р	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	в9.11	SUR VOL	2LPH-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	815.70	VT-2	2VT2-95	ACC				No recordable indications

Identification No.	<u>Description</u>	Code <u>Cate.</u>	Item No.	<u> Meth</u>	Data Rpt. No.	Noind	Insig	Geom	Other	Remarks
12LPCS(1)-22	VLV .TO PIPE	B-J	B9.11	SUR VOL	2LPH-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	в9.11	SUR VOL	2LPU-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 y 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-retevant indications recorded along with root geometry
LPCS-PB-101(L)	LK PRES BNDRY	в-Р	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	2MSH-012	ACC				No recordable indications.
26HS(1)A-6	PIPE TO ELL	B-J	B9.11	SUR VOL	2HSH-010 2HSU-019	ACC 45		•		No recordable indications. Scanned across weld surface. No recordable indications.
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Identification No.	Description	Code Cate.	Item No.	<u> Meth</u>	Data Rpt. No.	Noind	Insig Geom	Other_	Remarks
8HSR-4A-2BD	FLANGE BOLTING	B-G-2	87.50 ·	VT-1	2HSV-035	ACC			Examined in place under tension. No recordable indications
MS-RV-4A-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2HSV-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	2HSV-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. Hinor 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
8HSR-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	8-G-2	B7.70	VT-1	2MSV-026	ACC			Examined in place under tension. No recordable indications
MS-RV-ZA-BDY(L)	LK PRES TEST	B-P	B15.70	VT-2	2VT2-95	ACC			No recordable indications
8HSR-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.

Identification No.	Description	Code Cate.	Item No.	<u> Meth</u>	Data Rpt. No.	<u>Noind</u>	Insig Geom	Other	Remarks
MS-SA-2	STRUT	F-A	F1.10A	VT-3	2HV-010		ÄCC		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
26HS(1)A-16	VALVE TO PENE	B-J	в9.11	SUR VOL	2HSH-009 2HSU-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.
26HS(1)A-17	PENE TO VALVE	B-J	B9.11	SUR	2MSH-011	ACC			No recordable indications.
				VOL	2HSU-020	.45			One sided exam due to valve configuration. Scanned
									across weld to assure coverage. 1/2 vee cal use for circ scan.
MS-V-28A/2HS(9)-4	DRAIN CONN	B-J	B9.32	SUR	2HSP-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
2227 E 2427 <del>427</del>	<del></del>	T. 1		12	T' I	1277			Includes items on diagrams MS-107 and MSLC-101.
ISI Diagram No. HS-102									
	PULVAP BOLĪŽĪNO	* * 3	n7 E0	100-4	2007 077	***			k #0008800008000080000000000000000000000
8HSR-5B-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2HSV-037	ACC			Examined in place under tension. No recordable indications
MS-RV-5B-BLT	VALVE BOLTING	B-G-2	в7.70	VT-1	2MSV-022	ACC			Examined in place under
110-11-70-061	ANTAE DOLLLING	0-0-2	01.10	41-1	2034-022	ACC			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

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Identification No.	Description	Code Cate.	Item No.	<u>Heth</u>	Data Rpt. No.	Noind Insig	Geom	<u>Other</u>	Remarks
8MSR-4B-28D	FLANGE BOLTING	B-G-2	B7.50	VT-1	2HSV-034	ACC .			Examined in place under tension. No recordable indications
MS-RV-4B-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2HSV-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	8-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	в7.70	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	в7.70	VT-1	2HSV-Q16	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

Identification No.	Description	Code Cate.	Item No.	<u> Heth</u>	Data Rpt. No.	<u>Noind</u> .	Insig Geom	<u>Other</u>	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-280	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	2HSV-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-2BD	FLANGE BOLTING-	B-G-2	B7.50	VT-1	2HSV-009	ACC			Examined in place under tension. No recordable indications
MS-RV-4C-BLT	VALVE BOLTING	B-G-2	B7.70	VT=1	2HSV-008	ACC .			Examined in place under tension. No recordable indications
MS-RV-4C-BDY(L)	LK PRES TEST	в-Р	B15.70	VT-2	2VT2-95	ACC			No recordable indications
8MSR-3C-2BD	FLANGE BOLTING	B-G-2	B <b>7.</b> 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	2HSV-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	2HSV-013	ACC			Examined in place under tension. No recordable indications
HS-RV-2C-BLT	VALVE BOLTING	B-G-2	в7.70	VT-1	2HSV-012	ACC	<u> </u>		Examined in place under tension. No recordable indications
MS-RV-2C-BDY(L)	LK PRES TEST	8-P	815.70	VT-2	2VT2-95	ACC			No recordable indications



Identification No.	Description	Code <u>Cate.</u>	Item No.	<u> Meth</u>	Data Rpt. No.	Noind 1	Insig	Geom	Other	Remarks
8HSR-1C-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2HSV-015	ACC				Examined in place under tension. No recordable indications
MS-RV-1C-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2HSV-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	в-Р	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	в7.70	VT-1	2MSV-002	ACC				Examined in place under tension. No recordable indications
MS-RV-4D-BDY(L)	LK PRES TEST	в-Р	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-3D-2BD	FLANGE BOLTING	B-G-2	87.50	VT-1	2HSV-030	ACC				Examined in place under tension. No recordable indications
MS-RV-3D-BLT	VALVE BOLTING	B-G-2	в7.70	VT-1	2HSV-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	в7.50	VT-1	2HSV-005	ACC				Examined in place under tension. No recordable indications

Identification No.	Description	Code Cate.	Item No.	<u> Heth</u>	Data Rpt. No.	Noind	Insig	Geom	<u>Other</u>	Remarks
HS-RV-2D-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2HSV-004	ACC				Examined in place under tension. No recordable indications
MS-RV-2D-BDY(L)	LK PRES TEST	8 <b>-</b> P	B15.70	VT-2	2VT2-95	ACC				No recordable indications
8MSR-1D-2BD	FLANGE BOLTING	B-G-2	B7.50	VT-1	2HSV-032	ACC				Examined in place under tension. No recordable indications
HS-RV-1D-BLT	VALVE BOLTING	B-G-2	B7.70	VT-1	2HSV-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
HS-V-280-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		<u> </u>		No recordable indications Includes items on diagrams MS-110 and MSLC-104
IȘI 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	2HSV-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		-								
26HS(1)A-18	VALVE TO PIPE	C-F-2	c5.51	VOL	2HSU-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.



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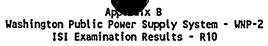
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Identification No.	Description	Code Cate.	Item No.	<u> Heth</u>	Data Rpt. No.	<u>Noind</u>	Insig - Geom	<u>Other</u>	Remarks
26HS(1)A-19	PÍPE TO PIPE	C-F-2	C5.51	VOL	2HSU-022	45			Two sided exam. Scanned across weld to assure coverage. No recordable indications.
30Hs(1)A-8LUI	ELL SEAM	C-F-2	C5.52	SUR Vol	2HSH-003 2HSU-010	ACC 45			No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30HS(1)A-8LUO .	ELL SEAM	C-F-2	C5.52	SUR Vol	2HSH-003 2HSU-012	ACC 45			No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30HS(1)A-8	ELL TO PIPE	C-F-2	C5.51	SUR VOL	2MSH-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	2HSH-003 2HSU-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
30HS(1)A-13	ELL <sub>,</sub> TO PIPE	C-F-2	<b>c5.51</b>	SUR VOL	2MSH-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.
30HS(1)A-13LD	PIPE LONG SEAM	C-F-2	.c5.52	SUR Vol	2HSH-006 2HSU-013	ACC 45			No recordable indications. No recordable indications
HS-114(W)	8 WELDED LUGS	C-C	c3.20	SUR	2MSM-005	ACC			No recordable indications.
HS-89(W)	4 WELDED LUGS	c-c	c3.20	SUR	2MSM-007	ĂCC			No recordable indications.

Identification No.	<u>Description</u>	Code Cate,	Item No.	<u> K</u> eth	Data Rpt. No.	<u> Noind</u>	Insig	Geom	<u>Other</u>	Remarks
MS-89	SPRING	F-A	F1.20C	VT-3	2HV-004	ACC				Variable spring hanger
2HS(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	2MSP-002	ACC				No recordable indications.
ISI Diagram No. MS-202										
30MS(1)B-19LU	PIPE LONG SEAM	C-F-2	c5.52	SUR Vol <sup>,</sup>	2HSH-001 2HSU-007	ACC 45				No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30HS(1)B-19	PIPE TO ELL	C-F-2	C5.51	SUR VOL	2HSH-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.
30HS(1)B-19LDO	ELL SEAM	- C-F-2	·C5.52	SUR VOL	2HSH-001 2HSU-006	ACC 45	- <u></u>			No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30Hs(1)B-20LUO	ELL SEAM	C-F-2	c5.52 ,	SUR Vol	2HSH-001 2HSU-008	ACC 45				No recordable indications. Scanned across weld to assure coverage. No recordable indications.
30HS(1)B-20	ELL TO PIPE	C-F-2	C5.51	SUR Vol	2HSH-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.
30HS(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.





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Identification No.	Description	Code Cate.	Item No.	<u> Meth</u>	Data Rpt. No.	<u>Noind</u>	<u>Insig</u>	Geom_	Other	Remarks
MS-147(W)	8 WELDED LUGS	c-c	c3.20	SUR	2HSH-008	ACC				No recordable indications.
30MS(1)B-24/6MS(1)-4	WOL TO PIPE	C-F-2	· c5.81	SUR	2HSH-004	ACÇ				No recordable indications.
6HS(1)B-1	PIPE TO WOL	C-F-2	C5.51	SUR	2MSM-002	ACC				No recordable indications.
				VOL	2HSU-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.
6HS(1)B-2	CAP TO PIPE	C-F-2	c5.51	SUR	2MSN-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	2HSU-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 VOL	2HSH-004 2HSU-014	ACC 45				No recordable indications. No recordable indications
30MS(1)B-27	PIPE TO ELL	C-F-2	<b>c5.51</b>	SUR VOL	2MSM-004 2MSU-016	ACC	45			No recordable indications. Scanned across weld surface. Ind #1 root geometry. No other recordable indications.
30HS(1)B-27LDO	ELL SEAM	C-F-2	C5.52	SUR Vol	2MSM-004 2MSU-014	ACC 45				No recordable indications. No recordable indications
30HS(1)B-28LU0	ELL SEAM	C-F-2	c5.52	SUR Vol	2MSM-004 2MSU-014	ACC 45				No recordable indications. No recordable indications

Identification No.		Code Cate.	Item No.	<u> Heth</u>	Data Rpt. No.	Noind	Insig	Geom	<u>Other</u>	Remarks
30HS(1)B-28	ELL TO PIPE	C-F-2	c5.51	SUR Vol	2HSH-004 2HSU-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	2HSH-004 2HSU-014	ACC 45				No recordable indications. No recordable indications
ISI Diagram No. MS-206										
3HS(20)-1A	VALVE TO PIPE	AUGHT	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	- <u>-</u>			Circ scan performed with 1/2 vee cal. No recordable indications.

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Identification No.	Description	Code Cate.	Item No.	<u>Keth</u>	Data Rpt. No.	Noind	Insig Ge	om Other	Remarks
10RCIC(12)-2	PIPE TO ELL	B-J	B9.11	SUR VOL	2RIH-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.
10RC1C(12)-4	PIPE TO VLV	B-J	в9.11	VOL	2R1U-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	2								
RHR-V-23-BDY(L)	LK PRES TEST	B-P	815.70	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

#### Арреndix В Washington Public Ромег Supply System - WNP-2 ISI Examination Results - R10

Identification No.	<u>Description</u>	Code <u>Cate.</u>	Item No.	<u> Heth</u>	Data Rpt. No.	Noind	Insig	Geom	<u>Other</u>	Remarks
ISI Diagram No. RCIC-201										41
4RCIC(13)-23	PIPE TO ELL	AUGHT	NA	VOL	2RIU-006		45			Two sided exam. scanned across weld to assure coverage. Indications 1 & 2 are 1D geometry and noted 180 deg. intermittently at varying amplitudes.
4RCIC(13)-24	ELL TO PIPE	AUGHT	на	VOL	2R1U-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)Å-1A	PIPE TO VALVE	AUGHT	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	2FW-004	ACC				No recordable indications.
		_		VOL	2FWJ-005	45			-	One sided exam due to valve configuration. Scanned
						-	-		-	across weld to assure coverage. 1/2 yee cal used
										for cir scan. No recordable indications.
					44					
					Page B-16					





Identification No.	Description	Code Cate.	Item No.	<u>Heth</u>	Data Rpt. No.	Noind	Insig	Geom	<u>Other</u>	Remarks
24RFW(1)A-1/5RFW(11)-4	PIPE TO WOL	B-J	в <b>9.31</b>	SUR VOL	2FWH-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	в-Р	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	2FW-003 2FW-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	2FWU-003 2FWU-002 2FWU-003	ACC	<b>45</b> <b>60</b>			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	85.130	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

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

Identification No.	Description	Code Cate.	Item No.	<u> Meth</u>	Data Rpt.'No.	<u> Hoind</u>	<u>Insig</u> <u>G</u>	ieom	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	<b>B5.130</b>	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			z.							
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	2FWH-001	ACC				HT done on 5 lugs only - PT done on 1 due to accessibility. See report
										2FWP-001. No recordable indications.
				SUR	2FWP-001	ACC				PT on (1) lug that was unaccessible for HT. 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	2FWH-002	ACC				No recordable indications.



Identification No.	Description	Code Cate.	Item No.	<u> Heth</u>	Data Rpt. No.	Noind	Insig	Geom	<u>Other</u>	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

Identification No.	Description	Code Cate.	Item No.	<u> Meth</u>	Data Rpt. No.	Noind	Insig	Geom	<u>Other</u>	Remarks
6RFW(11)-1	VALVE TO PIPE	B-J	B9.11	SUR VOL VOL	2FWP-006 2FWU-009 2FWU-010	ACC 45 45				No recordable indications No recordable indications Root geometry observed at less than recordable levels 360 deg.
6RFW(11)-2	PIPE TO ELL	B-J	B9.11	ŞUR	2FWP-006		ACC			2 acceptable rounded indications
				VOL VOL	2FW-008 2FW-011	45 45	•			No recordable indications 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 VOL	2RHM-007 2RHU-007	ACC 45				No recordable indications.  Exam one side only due to valve configuration.
						1			=	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	8-P	B15.70	VT-2	2VT2:95	ACC				No recordable indications
RHR-P8-101(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC				No recordable indications
ISI Diagram No. RHR-102										
RHR-V-428-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	2412-95	ACC				No recordable indications



Identification No.	Description	Code Cate.	Item No.	<u> Meth</u>	Data Rpt. No.	<u> Noind</u>	Insig	Geom	Other	Remarks
RHR-V-41C-BDY(L)	LK PRES TEST	в-Р	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	8-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-1	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	815.70	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 <u>Cate.</u>	Item No.	<u> </u>	Data Rpt. No.	<u>Noind</u>	InsigGeom	<u>Other</u>	Remarks
RHR-PB-105(L)	LK PRES BNDRY	в-Р	B15.50	VT-2	2VT2-95	ACC			No recordable indications
ISI Diagram No. RHR-106			ŧ						
RHR-V-53B-BDY	VALVE BODY	B- <b>M-2</b>	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	8-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.

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Identification No.	<u>Description</u>	Code Cate.	Item No.	<u> Meth</u>	Data Rpt. No.	<u>Noind</u>	Insig Geom	<u>Other</u>	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	<b>c5.51</b>	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.

Identification No.	Description	Code <u>Cate.</u>	Item No.	<u> Meth</u>	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	SÚR	2RHM-005	ACC				No recordable indications.
ISI Diagram Hò. 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-Á	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 9150	B-D	NA -	VOL	2RPU-001	25,70		-		No recordable indications.



Identification No.	<u>Description</u>	Code Cate.	Item No.	<u> Keth</u>	Data Rpt. No.	Noind_	Insig	Geom	Other_	Remarks
JET PUMP SENSING LINES	JP SENSING LINE	NA	HA	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

Identification No.	Description	Code Cate.	Item No	<u> Keth</u>	Data Rpt. No.	Noind Insig Geom	Other	Remarks
RPV(CS)	SKIRT & BAS PLT	F-A	F1.40A	VT-3	2нv-015	ACC		RPV skirt and base plate Base plate, top of studs and nuts examined 0-360 deg Skirt examined on 0.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	815.10	VT-2	2VT2-95		REJ	Ten CRD flanges leaking various rates. repaired under WO UZ87
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)-45	PIPE TO SWL	B-J	89.31	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	Ē-Ē	B15.70	VT-2	2VT2-95	ĀCC		No recordable indications
24RRC(1)A-20/12CAP	PIPE TO SWL	B-J	в9.31	VOL	R-R10-005	45,60RL		No recordable indications
RRC-PB-101(L)	LK PRES BNDRY	<b>B-</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





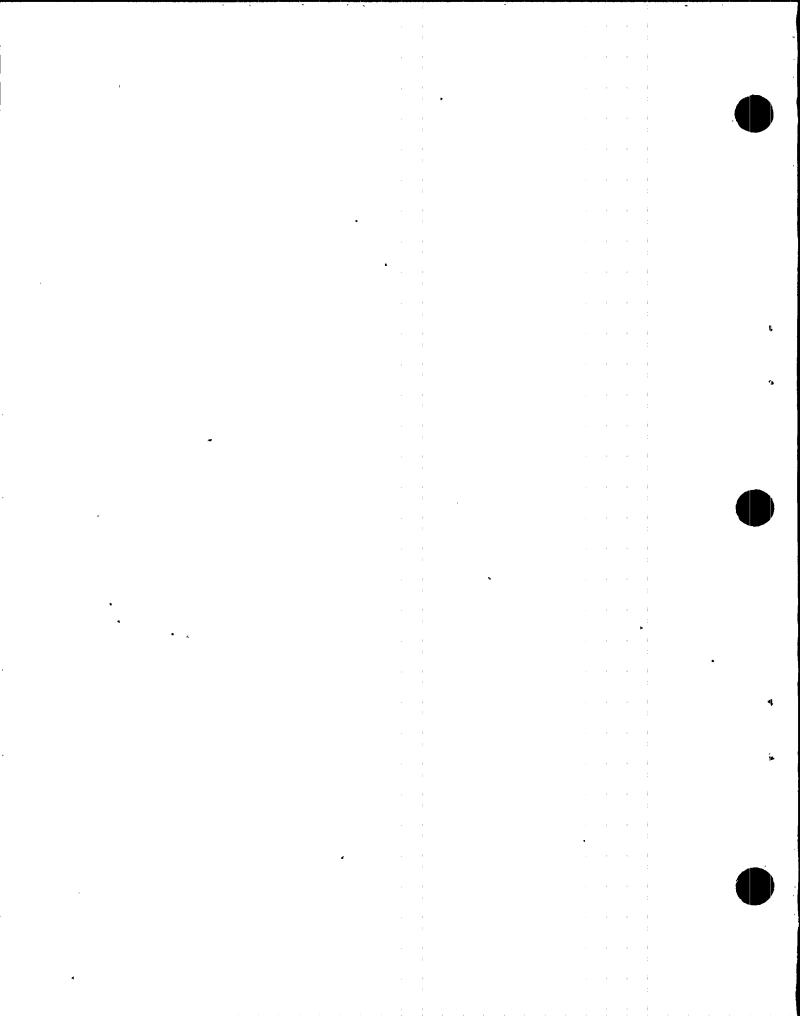
Identification No.	Description	Code Cate.	Item No.	Meth	Data Rpt. No.	Noind	Insig Geom	<u>Other</u>	Remarks
RRC-V-67B-BDY(L)	LK PRES TEST	B-P	815.70	VT-2	2VT2-95	ACC			No recordable indications
RRC-PB-102(L)	LK PRES BNDRY	B-P	B15.50	VT-2	2VT2-95	ACC			No recordable indications
ISI Diagram No. RRC-103									
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	F1.400	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.	<u> Heth</u>	Data Rpt. No.	<u>Noind</u>	Insig	Geom_	<u>Other</u>	Remarks	· · · · · · · · · · · · · · · · · · ·
ı	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 Root geometry	*******
	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	815.50	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										4	Sa.
	RRC-PB-111(L)	LK PRES BNDRÝ	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	AUGHT	NA	VOL	2RTU-001	45				No recordable	indications
	6RWCU(2)-2	ELL TO PIPE	AUGHT	NA .	VOL.	2RTU-001	45				No recordable	indications
	6RWCU(2)-3	PIPE TO VLV	AUGHT	NA	VOL	2RTU-002	<sub>.</sub> 45		-		No recordable	indications
	6RWCU(2)-4	VLV TO PIPE	AUGHT -	NA -	VOL	2RTU-003	.45 .				No recordable	indications
	6RWCU(2)-9	TEE TO VLV	AUGHT	KA:	VOL VOL	2RTU-004 2RTU-005	45 45		* * 100°4 * .		No recordable Root geometry less than reco 360 deg.	observed at



Identification No.	Description	Code Cate.	Item No.	<u> Heth</u>	Data Rpt. No.	<u> Hoind</u>	Insig (	Geom	<u>Other</u>	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	вох	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	вох	F-A	F1.30A	VT-3	2HV-005	ACC				Minor surface corrosion on some fillet welds. No material loss.

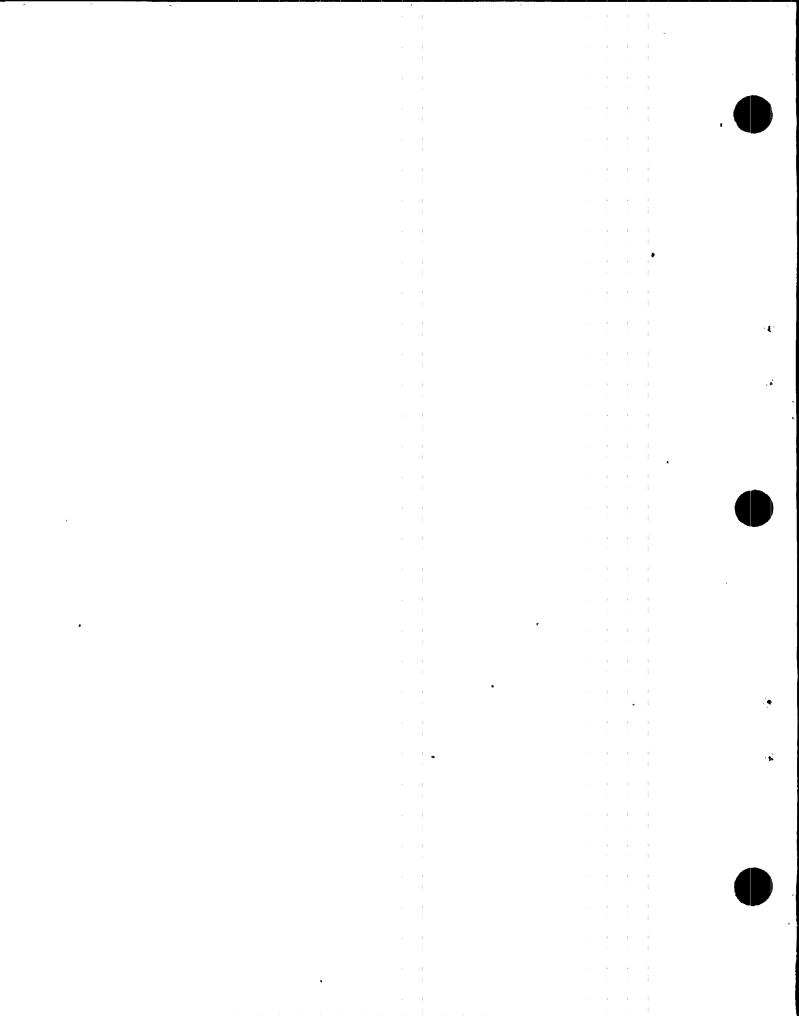


#### APPENDIX C

#### 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.



#### ISI SUMMARY REPORT RF95A

#### APPENDIX C

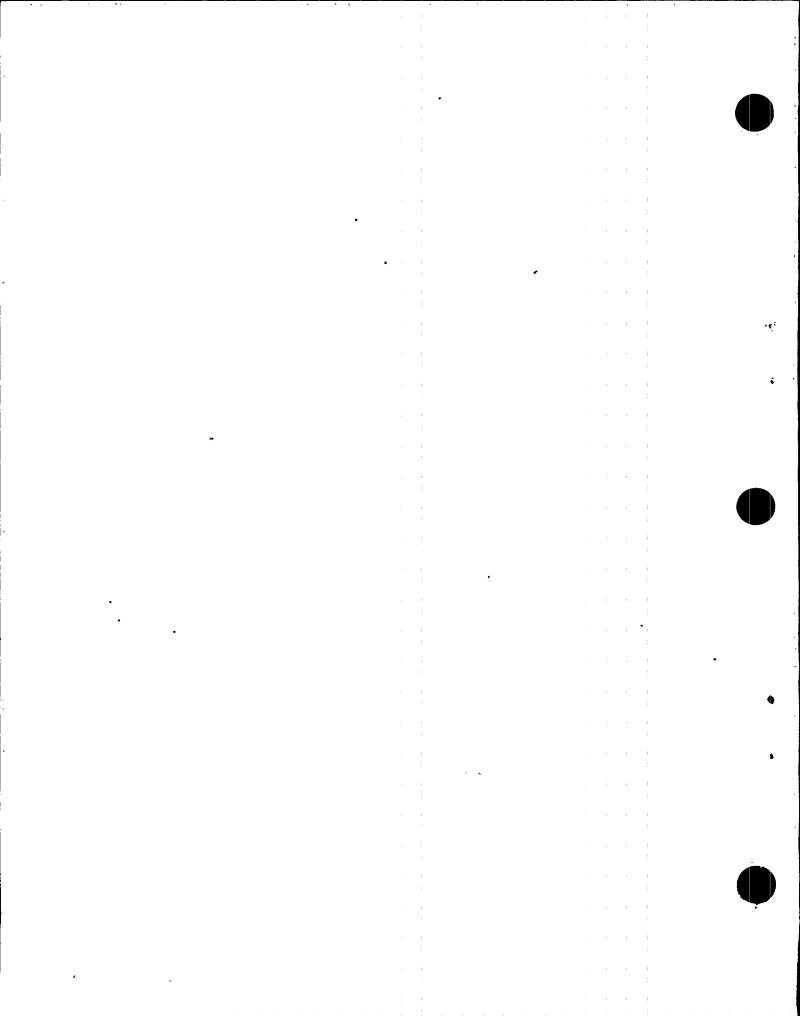
### ASME SECTION XI REPAIR AND REPLACEMENT LISTING NIS-2 OWNER'S REPORTS

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 N	O 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 Repor
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	Roliof 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 boiting 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		• •
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
2-1132	TU 5301	Replaced parts for valve SLC-V-4A	Penetration	RF95A Summary Report
2-1137	KX 0206	·	Valve	RF95A Summary Report
2-1137 2-1139	CD 9701	Replaced module (IST) for Position No 2 penetration X-101C	Penetration	RF95A Summary Report
2-1139	NX 9101	Replaced existing relief valve MS-RV-1C with spare S/N N63790-00-0139	Piping	RF95A Summary Report
2-1141	NX 9201	Replaced existing relief valve MS-RV-2A with spare S/N N63790-00-0054	Piping	RF95A Summary Report
2-1141	NX 9301	Replaced existing relief valve MS-RV-3A with spare S/N N63790-00-0058	Piping	RF95A Summary Repor
2-1142	PA 1101	Replaced existing relief valve MS-RV-4C with spare S/N N63790-00-0056	Piping	RF95A Summary Report
2-1146	NX 8501	Replaced existing relief valve MS-RV-1A with spare S/N N63790-00-0049	Piping	RF95A Summary Report
		Replaced existing relief valve MS-RV-3C with spare S/N N63790-00-0124	Piping i	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 i	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

#### ASME SECTION XI REPAIR AND REPLACEMENT LISTING FOR WNP-2

	PLAN NO	WO NO	COMPONENT NUMBER / WORK DESCRIPTION	DESC OF COMP	R&R REPORTED IN
_		·			
	-1185	NY 1504	Installed tubing for CIA supply to valve MS-V-22D	Tubing	See Note 1
1	-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	Valvo	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	Valv <del>o</del>	RF95A Summary Report
	2-1203	US 1601	Made body to bonnet seal weld for valve PSR-V-X83/1	Valv <del>o</del>	RF95A Summary Report
	2-1204	UV 7601	Replaced disc for valve CIA-V-21	Valvo	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	Valv <del>o</del>	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





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

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, Washington

Date: 6/21/95 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



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

Test Pressure: Psig Temperature: °F Temperatur	ronm r	vis-2 uviven s hepun i	ron nerains	ON NEFLACEMENT	S (Dack)
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 Expiration Date: Not Applicable Expiration Date: Not Applicable  Prepared By	Tos	t Pressure: Palg	1 1	Test Temperature: ° F	Other X N
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 Expiration Date: Not Applicable Expiration Date: Not Applicable  Prepared By	Remarks: See attached	I NPV-1 Code Data Report for the	new valve PI-V-913,	Serial No GT 1346	
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		•	•	*	
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					
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					
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				·	$(x_1, x_2, x_3, x_4, x_4, x_4, x_4, x_4, x_4, x_4, x_4$
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			4		- 1
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		<del></del>			
Type Code Symbol Stamp; Not applicable Certificate Of Authorization No.: Not applicable Expiration Date: Not Applicable Expiration Date: Not Applicable Prepared By Kuldip Singh - Materials And Inspection Date 6 21 95 Date  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  Commissions N8 9318 W A N I  Inspector Symmature  National Board, State, and Endorsements		CERTIFICA	ATE OF COMPL	JANCE	
Kuldip Singh! Materials And Inspection  Date 6 21 SS Date  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  Commissions NB 9318 W ANT NAtional Board, State, and Endorsements	to the rules of the A Type Code Symbol Certificate Of Author	ASME Code, Section XI Stamp: Not applicable orization No.: Not applicable	wner's Report a	re correct and this tops	ir <i>conforms</i>
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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. Coloring Supply

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Hanufactured by DR/	AGON VALVES, INC. •	13457 Excelsior Drive •	Norwalk, CA. 90650 Or	er No. N17709R SUP
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Printed in U.S.A.

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#### 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

Sheet: 1 of 1

Address: 3000 George Washington Way, Richland, Washington 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	Ropair	No, Code Class 1

- 7. Description Of Work Performed: Drillod 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



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

Test Prossure: Psig Component Design Pressure:			st Tempe mperatui	rature:			er 🗶 No
Remarks: None	. !					· i	
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CERTIFIC	ATE OF	COMPLIA	NCE	·			1 1 1
We certify that the statements made in this O	wner's l	Report are	correct a	nd this	repair	confor	ms
to the rules of the ASME Code, Section XI	!				! !		
Type Code Symbol Stamp: Not applicable Certificate Of Authorization No.: Not applicable	. !		1 1	1 1	1 1	1 1	
Expiration Date: Not Applicable							
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Propared By Vuloub Sups	Signe	ed By	(1)		<del>,</del>		
Kuldip Singh - Materials And Inspection	n		Manag	or, Materi	iais And	Inspecti	on
Date 6/20195	Date		6/21	195	<u> </u>		
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I, the undersigned, holding a valid commission vessel inspectors and the State of Washington (Factory Mutual Engineering Association) of Norway described in this Owner's Report during the	on issue n and en ood. Mas	ed by the N nployed by sachusetts	<i>ational E</i> Arkwrigh <i>have Ins</i>	loard of t:Mutual pected	Insura the co	ince Co <i>mpone</i>	mpany ents
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Date: 6/19/95

Sheet: 1 of 1

Unit: WNP-2



# 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: 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



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CERTIFIC	ATE OF C	OMPLIANCE		i i	1 1 1
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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) Address: Hanford Reservation, Benton County, Washington

Unit: WNP-2

- 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,
- 6. Identification Of Components Repaired Or Replaced And Replacement Components

lanufacturer	Serial No	Board No	I.D.	Built	Replaced Or Replacement	Stamped (Yes Or No) Code Class
Anderson Greenwood	VB 7899	N/A	N/A	1983	Replacement	Yes, Code Class 2
	Anderson	Anderson VB 7899	Anderson VB 7899 N/A		No         No           Anderson         VB 7899         N/A         N/A         1983	Anderson VB 7899 N/A N/A 1983 Replacement

- 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



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	FORM NIS-2 OWNER'S REI	PORT FOR REPAIL	rs or replaceme	ENTS (Back)	
8 Tests Condu	ucted: Hydrostatic Pneu Test Pressure: Psig Component Design Pres		al Operating Pressui Test Temperature: Temperature: ° F		X Non
9. Remarks: N	lone				
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	CER	TIFICATE OF COM	PLIANCE		1 1 1
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Date	6 2-0 [95"	Date	(6/21/95	iais And inspection	
	CERTIFIC	ATE OF INSERVIC	E INSPECTION	• • •	
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	Inspector's Signature	Commiss	ions <u>NB 93 /8</u> National Board, S	State, and Endorse	ments
Date	6-22-95				



1. Owner: Washington Public Power Supply System (WPPSS)

Date: 6/16/95

Address: 3000 George Washington Way, Richland, Washington 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Sheet: 1 of 1

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
)					ħ.		

- 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

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8 Tests Condu	cted: Hydrostatic Pneum Test Pressure: Psig Component Design Press		Operating Pressur Test Temperature: Temperature: ° F	
	essure test to confirm pressure boundar a separate ASME Section XI plan	y integrity on the flanged	l joints will be performed	when the spare valve is installe
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	CERTI	FICATE OF COMP	LIANCE	
We cortifue	that the statements made in th	is Owner's Reports	ere correct and this	renincement <i>conforms</i>
	of the ASME Code, Section X			
Type Code	Symbol Stamp: Not applicable	i ı ı		
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Prepared B	y Quearb Sange	Signed By	CIE	<u> </u>
	Kuldip Singh - Materials And Inspe		Manager, Materi	ials And Inspection
Date	6/20195	Date	6/21/95	<b>, , , , , , , , , , , , , , , , , , , </b>
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	CERTIFICAT	TE OF INSERVICE	INSPECTION	
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Vessel Insp	pectors and the State of Washin	igton <i>and employed</i>	<i>l by</i> Arkwright Mutual	Insurance Company
(Factory Mut	tual Engineering Association) of N	orwood, Massachuse	tts have inspected	the components
described in	n this Owner's Report during t	the period <u>9-7-</u>	-94 to 6	<u>-19-95</u> and
state to the	best of my knowledge and be	lief, the Owner has	performed examina	auons and taken
	measures described in this Ov e, Section XI	vners κεροπ in acc	corgance with the r	equirements of the
	e, Section XI this certificate neither the insp	pector nor his emp	lover makes anv wa	rranty, expressed or
implied, col	ncerning the examinations an	d corrective measu	res described in th	is Owner's Report.
Furthermor	re, neither the inspector nor hi	s employer shall be	e liable in any mann	ner for any personal 🔻 🗀
injury or pr	operty damage or a loss-of an	y kind arising from	or connected with	this inspection
	10 01/1		110 0210	
	Inspector's Signature	Commissio	ns <u>NB 93/8</u> National Board, S	State, and Endorsements
Date	6-22-95		t mention mountly	- mile mile mineralitation
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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
Spere 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



	Test Pressure: Component Des	Psig		al Operating Pre Test Temperat Temperature:	ure: ° F		Other		None
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We certify th	at the statements i	nade in this Ov	vner's Repon	are correct and	this rep	aceme	nt <i>cont</i>	forms	
to the rules of	of the ASME Code,	Section XI	]			!	1		
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	Kuldip Singh - Materi	als And Inspection		Manager, I		And ins	pection		
Date	6/20195		_Date	6/2/19			_	······	
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1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, Washington Date: 6/16/95

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

sby N63	790-00-0058	N/A				
		NA .	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



Component Design Pressure		est Temperature emperature: ° F		1 1
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Certificate Of Authorization No.: Not applicable		$-\frac{1}{2} = -\frac{1}{2} = -\frac{1}{2} = -\frac{1}{2}$		
Expiration Date: Not Applicable	1 1			
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Kuldip Singh - Materials And Inspection		Managor, Mat	rials And Inspection	
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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	<b>N/A</b>	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



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 Certificate Of Authorization No.: Not applicable Expiration Date: Not Applicable  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller 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 97 7 794 to 626-75 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 the this inspection    Commissions   LEM 315	ests Conducted: Hydrostatic Palg Test Pressure: Palg Component Design Pressure:		i Operating Pre Test Temperat Temperature:	ure: ° F	Other 🔼	Non
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Type Code Symbol Stamp: Not applicable Certificate Of Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared By		Where nepole.	ara cument ame	Ulla lopaçone.	M. GOINGIA	
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Expiration Date: Not Applicable  Prepared By					· I	
Kukip Singh - Materials And Inspection   Manager, Materials And Inspection     CERTIFICATE OF INSERVICE INSPECTION     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     It is contact 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   MSG 318	• •					
CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller 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 9-94 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    Commissions   ASG 318	7	4 E	1200	1	i	
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CERTIFICATE OF INSERVICE INSPECTION  The undersigned, holding a valid commission issued by the National Board of Boller 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.  Commissions ABG318 W H. N. T. Inspector's Signature.	6/22/95	Date .	6/22/9	» <u> </u>		
I, the undersigned, holding a valid commission issued by the National Board of Boller 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    Commissions   MSI 318   W   A. N.T.     National Board, State, and Endorsements   National Board, State, and Endorsements				1 1 1		
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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 ABG318 W A.N.T.  Inspector's Signature  National Board, State, and Endorsements	described in this Owner's Report auring use μ	perioa <u>~</u>		winotions on	d taken	
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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 ABG318 W ANT National Board, State, and Endorsements	corrective measures described in this Owner	's Report іп ас	COTGENCE WILL	ine requireme	this of use	
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 ABG 318 W ANT Inspector's Signature  National Board, State, and Endorsements	ASME Code, Section XI	- La amais	makas or	·····		
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 18938 W ANT National Board, State, and Endorsements	By signing this certificate neither the inspect	or nor ms emp	loyer makes an	ly Walfallty, v. ! 46is Oluner	Xpresseu e. 4 Denort	r
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Inspector's Signature National Board, State, and Endorsements	injury or property damage or a loss of any kill	10 arising non	i Ok Collifected	Widi dha map	CÇUMI I I	
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1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 Geome Washington Way Richland Washington

Date: 6/16/95

Address: 3000 George Washington Way, Richland, Washington
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)

Sheet: 1 of 1

Address: Hanford Reservation, Benton County, Washington

Unit: WNP-2

- 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



	d: Hydrostatic Pneu Test Pressure: Psig Component Design Pres	<u> </u>	Operating Pressure Other Test Temperature: ° F Temperature: ° F	X N
	re test to confirm pressure bound parate ASME Section XI plan	lary integrity on the flanged j	oints will be performed when the spare valve	is insta
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	the ASME Code, Section .			///-
	mbol Stamp: Not applicable			
Certificate Of	Authorization No.: Not applic	cable		
Expiration Dat	e: Not Applicable			
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Prepared By _	Kuldip Singh - Materials And Ins	2Signed By	Manager, Materials And Inspection	
	Midip Singit - materiale - and		Managor, materials And Inspection	
Date	<u>6120[]</u>	Date	(3/21175)	
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described in the	Engineening Association of He Owner's Report during	n the neriod 9 = 7	1-94 to 6-19-95 a	nd.
state to the be	st of mv knowledge and l	belief. the Owner has p	performed examinations and taken	
corrective mea	sures described in this (	Dwner's Report in acc	ordance with the requirements of th	he I
ASME Code, S				
By signing this	s certificate neither the in	spector nor his emplo	yer makes any warranty, expresse	d or
implied, conce	eming the examinations a	ind corrective measure	es described in this Owner's Repor	/ <b>t.</b> !
•	neither the inspector nor	his employer shall be	liable in any manner for any person	nai
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injury or propu	64//	Commission	ار ماماد باست مستحد المسالمات المسالم	



1. Owner: Washington Public Power Supply System (WPPSS)

Date: 6/19/95

Sheet: 1 of 1

Address: 3000 George Washington Way, Richland, Washington 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



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8	Tests Conducted: Hydrostatic Pneum. Test Pressure: 124 Psig Component Design Pressu		Operating Pressure Test Temperature: 7 Temperature: 100° F	7°F
9.	. Remarks: None	. !		· i
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	We certify that the statements made in this	s Owner's Report s	re correct and this	reneir conforms
	to the rules of the ASME Code, Section XI			opai oomomo
	Type Code Symbol Stamp: Not applicable	· ! · · · · · · · · · · · · · · · · · · ·		
	Certificate Of Authorization No.: Not applicab	io		
	Expiration Date: Not Applicable	:		
	Prepared By Kuldis Sups	Signed By	(1115	•
	Kuldip Singh - Materials And Inspec	ction	Manager, Materia	Is And Inspection
	Date 6 20(95	Date	6/21/95	<del></del>
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	CERTIFICAT	E OF INSERVICE	INSPECTION	
	i, the undersigned, holding a valid commis	ssion issued by the	National Board of I	Boller and Pressure
	Vessel Inspectors and the State of Washing	gton <i>and employed</i>	by Arkwright Mutual I	nsurance Company
	(Factory Mutual Engineering Association) of No	rwood, Massachuse	ts have inspected th	ne components
	described in this Owner's Report during ti state to the best of my knowledge and beli	ie perioa <u> </u>	nerformed evening	-20-95 and
	corrective measures described in this Owi	ner's Report in acc	ordance with the re	guirements of the
	ASME Code, Section XI			
	By signing this certificate neither the insp	ector nor his empl	oyer makes any war	ranty, expressed or
	implied, concerning the examinations and	corrective measur	es described in this	Owner's Report.
	Furthermore, neither the inspector nor his injury or property damage or a loss of any	: employer snall be : kind crising from	· IIBDIC IN BNY MANNE or connected with #	er for any personal
	Injury or property damage or a loss of any	Kind arising Hom	Di Coillecteu Milli u	na mapecaon
	Carl 7 Vans	Commission	ns NB 9318 U	ANI
	Inspector's Signature			ate, and Endorsements
	Date 6-22-95		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1
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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)

Sheet: 1 of 1 Unit: WNP-2

Date: 6/16/95

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

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- 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



Tests Conducted: Hydrostatic Pheumatic Test Pressure: Psig Component Design Pressure:		l Operating Pro Test Tempera Temperature:	ture: ° F	] Other [	× None
. Remarks: Pressure test to confirm pressure boundary intended the system under a separate ASME Section XI plan	egrity on the flange	d joints will be perfe	ormed when th	e spare valv	re is installed
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CERTIFICA	ATE OF COMP	PLIANCE			1 1 1
We certify that the statements made in this O	wner's Report	are correct and	<i>i this</i> replace	mont <i>confe</i>	orms
to the rules of the ASME Code, Section XI					l
Type Code Symbol Stamp: Not applicable	• !			1	}
Certificate Of Authorization No.: Not applicable Expiration Date: Not Applicable					l
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Prepared By Villach Suns	Signed By _		<b>16</b>	!!!	
Kuldip Singh - Materials And Inspection		Manager,	Materials And	inspection	
Date 6 20 (95	Date	6/21	195	1 1	
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CERTIFICATE C	OF INSERVICE	INSPECTION			
I, the undersigned, holding a valid commission Vessel Inspectors and the State of Washington (Factory Mutual Engineering Association) of Norwoodescribed in this Owner's Report during the p	and employed ood, Massachuse period <u>1+2</u>	I by Arkwright M etts have inspec 3 + 95 to	utual Insurar cted the cor 6-19-	nce Compa Inponents 195	any : :
state to the best of my knowledge and belief, corrective measures described in this Owner ASME Code, Section XI	's Report in ac	cordance with	the require	nents of t	the :
By signing this certificate neither the inspect implied, concerning the examinations and confurthermore, neither the inspector nor his entinging or property damage or a loss of any king.	rrective measu aployer shall b	res described : e liable in any r	in this Own nanner for i	er's Repo any perso	rt.
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Inspector's Signature  Date 6-22-95	Commişsiç	N8 9318 National Bo	pard, State, and	d Endorseme	ents
Date 6-22-95		1 1 1	1 1 1	. :	ļ
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Date: 6/16/95

Sheet: 1 of 1

Unit: WNP-2



# 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: 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

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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



<b>6</b> 1	Tests Conducted: Hydrostatic Price Programme Pressure Police Poli
<b>9.</b> in 1	Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is installed the system under a separate ASME Section XI plan
	andre de la companya de la companya La companya de la co
	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 Signed By Signed By
	Kuldip Singh - Materials And Inspection  Manager, Materials And Inspection  Date 6/21/5:5
	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
	Inspector's Signature  Date 6-22-95  Commissions NB 93/8 W AN I National Board, State, and Endorsements



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



Component Design Pressure		perating Press st Temperature mperature: ° F		
Remarks: Pressure test to confirm pressure boundary in a system under a separate ASME Section XI plan	ntegrity on the flanged jo	ints will be performe	ed when the spare valve	is insta
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Type Code Symbol Stamp: Not applicable				
Certificate Of Authorization No.: Not applicable		1 1 1 1 1		
Expiration Date: Not Applicable				
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Prepared By Wuldiff Such	Signed By	Louis	5	
Kuldip Singh - Materials And Inspection	on '	Manager, Mat	erials And Inspection	
Date 6/20195	Date	6/21/9	5	
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l, the undersigned, holding a valid commiss Vessel inspectors and the State of Washingto	J)) 6(1)46 Yrriprie ;	have Inspected	the components	7
Vessel Inspectors and the State of Washingto (Factory Mutual Engineering Association) of Norw	wood. Massachusetts		- 410 401116011611160	: :
Vessel Inspectors and the State of Washingto (Factory Mutual Engineering Association) of Norv described in this Owner's Report during the	wood, Massachusetts period <u>4 - 3</u>	-95 to 6	5-19-95 a	nd
Vessel Inspectors and the State of Washingto (Factory Mutual Engineering Association) of Norw described in this Owner's Report during the state to the best of my knowledge and belief	wood, Massachusetts period <u> </u>	- 9 <i>5</i> to <u>(</u> rformed examl	6-19-95 a nations and taken	
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Vessel Inspectors and the State of Washington (Factory Mutual Engineering Association) of Norw described in this Owner's Report during the state to the best of my knowledge and belief corrective measures described in this Owner ASME Code, Section XI By signing this certificate neither the Inspec	wood, Massachusetts period <u>4-3</u> f, the Owner has pe er's Report in accor ctor nor his employ	<u>95</u> to <u>6</u> rformed examil dance with the er makes any w	nations and taken requirements of ti varranty, expresse	he d or
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Date: 6/15/95

Sheet: 1 of 1

Unit: WNP-2



# 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

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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

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



Tests Conducted: Hydrostatic Pneumatic Test Pressure: 38.8 Psig Component Design Pressure:	Test T	nting Pressure Emperature: 75.6° Ferature: 340° F	Other X LLF
. Remarks: None			İ
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CERTIFICA	ATE OF COMPLIANC	<b>E</b>	i i I I I I I
We certify that the statements made in this Of 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  Kuklip Singh - Materials And Inspection	Signed By	rect and this replace  Manager, Materials And	
Date 6/20/95	Date : Co	12/95	
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<u> </u>	. !		
I, the undersigned, holding a valid commission Vessel Inspectors and the State of Washington (Factory Mutual Engineering Association) of Norwald described in this Owner's Report during the patate to the best of my knowledge and belief, corrective measures described in this Owner ASME Code, Section XI By signing this certificate neither the inspect implied, concerning the examinations and conformation for the inspector or his entingury or property damage or a loss of any king the section in the inspector of the inspector of the inspector or the inspector or property damage or a loss of any king the section in the inspector of the inspector or the inspector or the inspector of the inspector of the inspector or the inspector of the inspector or the inspector or the inspector or the inspector of the inspector or th	and employed by Ark bod, Massachusetts hav beriod 1 - 17-96 the Owner has perfor 's Report in accordan or nor his employer n rrective measures de aployer shall be liable	nal Board of Boller wright Mutual Insura te inspected the co- to 6 16 med examinations ce with the require nakes any warranty scribed in this Own in any manner for	nce Company mponents —95 and and taken ments of the  c, expressed or ner's Report. any personal
Inspector's Signature  Date 6-22-95	Commissions JV		ANI

Date: 6/15/95

Sheet: 1 of 1

Unit: WNP-2



# 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-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

Name Of Component	Name Of Manufacturer	Manufacturer <b>'s</b> Serial No	National Board No	Other I.D.	Year Bulit	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



	FORM NIS-2 OWNER'S REPO	ORT FOR REP	AIRS UR	REPLACE	nen i S	(Bac	CK)	: :	:
<i>3</i> 7	Tests Conducted: Hydrostatic Pneun Test Pressure: 38.8 Psig Component Design Press		Test	rating Press Temperatur perature: 340	r <b>e:</b> 75.6 <sup>0</sup>		)ther	X	LLR
).	Remarks: None					i	i		
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	CERTI	IFICATE OF C	OMPLIAN	CE				1 1	1
	We certify that the statements made in the to the rules of the ASME Code, Section X Type Code Symbol Stamp: Not applicable	<b>a</b>	ort are co	rrect and th	is replac	œmen	conf	forms	!
	Certificate Of Authorization No.: Not applica Expiration Date: Not Applicable	<b>ble</b>	! ! !			!			
	Prepared By Quait Such Kuldip Singh - Materials And Inspe	2 Signed I	Ву	Manager, Ma	25' Itorials An	id Insp	ection	<del></del>	,
	Date 6/20/95"	Date	!	6/21/99					
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	CERTIFICA	TE OF INSERV	/ICE INSF	PECTION			,		
	I, the undersigned, holding a valid comm. Vessel Inspectors and the State of Washir (Factory Mutual Engineering Association) of N described In this Owner's Report during a state to the best of my knowledge and be corrective measures described in this Ov ASME Code, Section XI By signing this certificate neither the Insi implied, concerning the examinations an Furthermore, neither the Inspector nor his	ngton and employerson the period 1 ellef, the Owner wner's Report is pector nor his and corrective mais employer shi	loyed by Aichusetts ha - 17 - 94 r has perfo in accorda employer i easures de all be liabl	with Mutuate inspected to to the comment of the com	ual Insured the confidence of	ance ompo 95 s ance remei ty, ex vner's	Components distance d	any sany sand and sand sand sand sand sand sand	
	injury or property damage or a loss of an	y kind arising	from or co	nnected wit	th this i	nspe	ction	1 1	- 1
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	Inspector's Signature  Date 6-22-95		1 1 1	National Board	d, State, a	and En	idorsen	nents	
1	1.	· ·					:		

Date: 6/15/95

Sheet: 1 of 1

Unit: WNP-2



# 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

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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

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



FORM NIS-2 OWNER'S REPO		
8 Tests Conducted: Hydrostatic Pneuma Test Pressure: 38.8 Psig Component Design Pressu	Test Ten	ng Pressure Other X LLR inperature: 74.4° F iture: 340° F
9. Remarks: None		
	· · · · · · · · · · · · · · · · · · ·	
CERTIF	FICATE OF COMPLIANCE	
We certify that the statements made in this	o Owner's Report are corre	ct 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	ie :	
Expiration Date: Not Applicable		
Prepared By Quality Euch	Signed By C	Mil.
Kuldip Singh - Materials And Inspec	ction Ma	nager, Materials And Inspection
Date 620/95	Date	21/98
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•		
CERTIFICAT	E OF INSERVICE INSPEC	TION
I, the undersigned, holding a valid commis Vessel inspectors and the State of Washing	ssion issued by the Nationa	I Board of Boller and Pressure
(Factory Mutual Engineering Association) of No	rwood, Massachusetts have I	inspected the components
described in this Owner's Report during the	re period 1-20-95	to <u>6-16-95</u> and
state to the best of my knowledge and bell	lef, the Owner has perform	ed examinations and taken
corrective measures described in this Own	ner's Report in accordance	with the requirements of the
ASME Code, Section XI By signing this certificate neither the insp	ector nor his employer mal	ces any warranty, expressed or
implied, concerning the examinations and	l corrective measures desc	ribed 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	r kind arising from or conne	cted with this inspection
10,07	Commissions <u>NB</u>	1318 W ANI
Inspector's Signature	OcialinasionsNat	onal Board, State, and Endorsements
Date 6-22-95		
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Date: 6/16/95

Sheet: 1 of 1

Unit: WNP-2



## 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-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

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



Kuldip Singh - Materials And Inspection	er's Rep Signed L	ort 8	are cor		me.					ms
We certify that the statements made in this Own 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	er's Rep Signed L	ort 8	are cor	rect	me.					
We certify that the statements made in this Own 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	er's Rep Signed L	ort 8	are cor	rect	me.					ms
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We certify that the statements made in this Own 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	er's Rep Signed L	ort 8	are cor	rect	me.					
CERTIFICATE OF A State of Washington ar (Factory Mutual Engineering Association) of Norwood described in this Owner's letter of the the personners of the best of my knowledge and belief, the corrective measures described in this Owner's letter of Washington and the State of the best of my knowledge and belief, the corrective measures described in this Owner's letter of the personners of	Signed L				me.					
Certificate Of Authorization No.: Not applicable Expiration Date: Not Applicable Prepared By  Kuklip Singh - Materials And Inspection Date  CERTIFICATE OF  I, the undersigned, holding a valid commission in Vessel Inspectors and the State of Washington ar (Factory Mutual Engineering Association) of Norwood described in this Owner's Report during the per- state to the best of my knowledge and belief, the corrective measures described in this Owner's in	Date	By	. 4	Manag (a/z)	gor, Ma	aterials	s And I	nspec	ction	
Certificate Of Authorization No.: Not applicable Expiration Date: Not Applicable Prepared By	Date	<b>By</b>		Manag 6/2/	gor, Ma	aterials	s And I	nspec	ction	
Prepared By Lucily Sub Skuklip Singh - Materials And Inspection  Date 6 20 95	Date	<b>3</b> y		Manag p/2/	gor, Ma	aterials	s And I	nspec	ction	
CERTIFICATE OF A Corrective measures described in this Owner's incorrective me	Date	<b>3</b> y		Manag p/21	gor, Ma	aterials	s And I	nspe	etion	
Kuklip Singh - Materials And Inspection  Date	Date	<b>By</b>		Manag p/21	gor, Ma	aterials	s And I	nspe	ction	
Kukip Singh - Materials And Inspection  Date			· .	Manag So/21	gor, Ma	aterials	s And I	nspe	etion	
CERTIFICATE OF A CERTIF		1 1		6/21	185					
CERTIFICATE OF A CERTIF	INSERI		-					-		
I, the undersigned, holding a valid commission in Vessel Inspectors and the State of Washington are (Factory Mutual Engineering Association) of Norwood described in this Owner's Report during the perstate to the best of my knowledge and belief, the corrective measures described in this Owner's in the corrective measures described in this Owner's in the owner's interest owner's interest owner's interest of the owner's interest of the owner's interest of the owner's interest owner's inter	INSEPI						- 1	-;-		
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state to the best of my knowledge and bellef, the corrective measures described in this Owner's i	ssued bad emplo Massaction	by the oyed chusel - 20	e Natio by Ark tts hav	nal B wrigh re ins	Board It Mutu Pecte to <u>£</u>	ual In: ed the 6 – /	suran e con 6 –	се С проі 93	Compan <i>nents</i> Sar	y :
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By signing this certificate neither the inspector i	nor his	empl	loyer m	nakes	any	warr	anty,	exp	resse	i or
implied, concerning the examinations and corre	clive m	easui	res de	scrib	ed in	this	Own	er's	Repor	i I
Furthermore, neither the inspector nor his empl injury or property damage or a loss of any kind	oyer sn: ovicina :	ali De from	oricon	nnect	ny ma od wi	annei Ith th	r IOT l	eny	persor	<i>81</i>
injury or property damage or a loss of any kind	arising i	iioiii	Or COI	1116611	eu wi		113 1113	pec		1
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Inspector's Signature							ito, and	d End	lorsemer	ts
Date 6-22-95	100		1 1	1 1	1 1	1				

Date: 6/16/95

Sheet: 1 of 1

Unit: WNP-2



# 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-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

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



Test Pressure: 33.7 Pslg Component Design Pressure: 45 Pslg  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 Kulcip Singh - Materials And Inspection  Date  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Murual 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 bellef, 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 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 jossyof any kind arising from or connected with this inspection	FORM NIS-2 OWNER'S REP	ORT FOR REPAIRS O	R REPLACEMENTS (Back)	1 1
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	Test Pressure: 38.7 Psig	Tes	st Temperature: 76.1° F	], LLRN
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	•			
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		•	e e e i	
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		·		
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	•	· 1		
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			$(x,y) = (x,y) \cdot 1$	
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		· · · · · · · · · · · · · · · · · · ·		
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				
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	CERT	IFICATE OF COMPLIA	<b>INCE</b>	1 1
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	We certify that the statements made in ti	his Owner's Report are	correct and this replacement conforms	
Type Code Symbol Stamp: Not applicable Certificate Of Authorization No.: Not applicable Expiration Date: Not Applicable Prepared By	to the rules of the ASME Code, Section >			•
Expiration Date: Not Applicable  Prepared By	Type Code Symbol Stamp: Not applicable	I I I		
CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller 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 1723795 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  Commissions NIB 9318 \( \omega \) A.N.T.		able ·		
CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller 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  Commissions NIB 9318 W ANT	Prepared By Qual Sugl		Chris	1
I, the undersigned, holding a valid commission issued by the National Board of Boller 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  Commissions Ni 93/8 \( \omega \) A, \( \text{X} \) \( \text{T} \)	Kuldip Singh - Materials And Ihsp		Manager, Materials And Inspection	•
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The first of the Company of the Comp	Date 6-22-95			

Date: 6/15/95

Sheet: 1 of 1

Unit: WNP-2



# 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-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

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



Tests Conducted: Hydrostatic Pneumatic Test Pressure: 38.7 Psig Component Design Pressure: 4	Test Temperature: 74.1° F
Remarks: See attached N-2 Code Data Report for the Elec	octrical Penetration assembly Serial No 780609, National Board No W1679
essembly Serial No 780609: National Board No W16797	0B was from WNP-1 ASME NPT Code Stamped Electrical Penetration
Component design pressure of 45 Psig and design temporary the WNP-2 Containment Vessel	perature of 340° F is based on the N-1 Code Data Report issued by PDM fo
CERTIFICA	ATE OF COMPLIANCE
	wner'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 Quedis Lings	Signed By Manager, Materials And Inspection
Kuldip Singh - Materials And Inspection	. / /
Date 6/20[4]	Date G/21/75
CERTIFICATE O	OF INSERVICE INSPECTION
and the second and a second assembled as the second assembled as the second assembled as the second	
I, the undersigned, notating a valid commission Vessel Inspectors and the State of Washington	on issued by the National Board of Boller and Pressure and employed by Arkwright Mutual Insurance Company
(Factory Mutual Engineering Association) of Norwood	ood. Massachusetts have inspected the components
described in this Owner's Report during the p	period 1-19-95 to 6-16-95 and
state to the best of my knowledge and belief, i	the Owner has performed examinations and taken
corrective measures described in this Owner's	's Report in accordance with the requirements of the
ASME Code, Section XI	
By signing this certificate neither the inspector	for nor his employer makes any warranty, expressed or
Implied, concerning the examinations and con	prective measures described in this Owner's Report.  Imployer shall be liable in any manner for any personal
Furnermore, neimer ine inspecioi noi me con	nd arising from or connected with this inspection
injury or property damage of a 1955 and	nu arising norm of commonter and which the second
( cul of land	Commissions NB 9318 W ANI
Inspector's Signature	National Board, State, and Endorsements
Date 6-22-95	

# FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES\* PLAN No. 2 - 113 Z PLAN No. 2 - 113 Z Buylon of the ASME Code Rules PLAN No. 2 - 113 Z

	guaip 80
	a) Manufactured by Westinghouse Electric Corp., Westinghouse Circle, Horseheads, NY 1484
	Washington Public Power Supply System, Hanford, Wash.
	(Name and address of Manufacturer of completed nuclear component)  Identification-Manufacturer's Serial No. of Part 780609 11 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
	Summer  (c) Applicable ASME Code: Section III, Edition 1974, Addenda date 75, Case No. N/A Class H.C.
<b>3.</b>	Remarks: This device when welded to the containment nozzle provides 3 sockets
	(Belef description of service for which component was designed) for the penetration modules. Together these parts complete the pressure
•	boundary of the containment. Quaip
	boundary of the containment.  S)20194
Th Ian	We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code consists to the rules of construction of the ASME Code Section III.  e applicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenance suffacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included the component Design Specification and Stress Report.)
let	July 25, 19 78 Signed Westinghouse Elec. Corp. By J. B. Kessing  (Manufacturer)
	(Manufacturer) ificate of Authorization Expires August 4, 1978 Certificate of Authorization No. 1190
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
E	Washington Public Power Supply System, Hanford, Wash.
s	cress analysis report on file as Westinghouse Electric Corp., Westinghouse Circle, Horseheads,
D	Prof. Eng. State Wash. Reg. No. 15344
	tress analysis report certified by Mi chael Yonko Prof. Eng. State N.Y. Reg. No. 44063
	CERTIFICATE OF SHOP INSPECTION
. <u></u> as	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors  New York  Lumbermens Hutual Casualty Co.
ie si	Long Grove, 111 nois  have inspected the part of a pressure vessel described in this anufacturer's Partial Data Report on July 27.  19. 78. 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 isplied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer isll be liable in any manner for any personal injury or property damage or a loss of any kind arising from or consected ith this inspection.
Ď	July 27., 19.78
)	LEC VERNEUR NB 6786 PAVC 1907

applemental shoets in form of lists, sketches or drawings may be used provided (1) size is \$90° x 11°, (2) information in items 3-3 on this. It was report to included on each shoet, and (3) each shoet in number of shoets in recorded in item 3, "Remarks".

Mational Board, State, Province and No.

-Inspector's Signature

FORM N-2 (back) S/N 780609

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(b) NO				<del></del> -	•		·		*	-	
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#### 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

Sheet: 1 of 1

Address: 3000 George Washington Way, Richland, Washington, 99352

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



Tests Conducted: Hydrostatic Pneumatic Mominal Operating Pressure X Other M
Test Pressure: 1150/1220 Psig Test Temperature: 80.4/87° F
Component Design Pressure: 1400 Psig Temperature: 150° F
Component Design Fressure. 1400 FSg Temperature. 150 F
Remarks: 1) See attached N-2 Code Data Reports for following new valve parts
Valvo Part Social No.
Trigger body assembly 4209
Inlet fitting 4211
Nominal operating pressure test on the down stream side of the valve (RPV Side) - test pressure of 1150 Psig and test temperature of
.4° F
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
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
1.0.00
Prepared By Quick Suich Signed By Mis G/21/65
Kuldip Singh - Materials And Inspection Manager, Materials And Inspection
Date (6/20195 Date 6/21/95
Date
$oldsymbol{\cdot}$
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
By signing this certificate neither the hispector for his employer makes any warranty, expressed
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 logs of any kind arising from or connected with this inspection
Commissions NB 9318 W ANT
Inspector's Signature National Board, State, and Endorsements
Date 6-27-495
Valor Company of the

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

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

AL	6/14/95
,	6114(42

		1401 10	Exceed Olle Day	3 Froduction		<u>M</u>		_01
Ų	Manufactured and certified by	Conax Buffalo	Corporation.	2300 Walden	Ave	Cheektowaga.	NY	1422
••	manufactored and certified by		(name :	and address of certificati	holden			
	•• • •	D.111 - D.	C1 D					

2.	Manufactured for Washir	igton Public Power	Supply, Richla	and, 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)	(CRH)	(year built)
5.	ASME Code, Section III:	77	· S77	1	N/A
		(edition)	(addenda)	(Class)	(Code Case no )
5.	Fabricated in accordance with	Const. Spec. (Div. 2 only	N/A . R	evision	Date
			(No.)		
7.	Remarks: Trigger body	subassembly for	explosive actua	ated valve replace	ment kit for
	standby liqu	id control system	n. Para. NB212	l (b) is applicable	e to ram.
-					
	* Pressure tes	sted at 2800 psig	for 10 minutes.	•	,
-					·····

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

9. When applicable, Certificate H	olders' data reports are attached	I for each item of this report:
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Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Orde
4209	4209	(26)	
4210	4210	(27)	
		(28)	
		(29)	······
•		(30)	
		(31)	
		(32)	
		(33)	
		(34)	
		(35)	
	<del></del>	(36)	······································
		(38)	·
		(39)	
		(40)	
		(41)	
	······································	(42)	
		(43)	
		(44)	
	<u>_</u>	(45)	
		(46)	and a second
		10.2.3	
		(48)	
		(49)	

10. Design pressure 1400 psi Temp. 150 °F. Hydro. test pressure \*See Remarks at temp. °F

### FORM N:2 (back)

	CERTIFICATE OF DESIGN	
Qesign specifications certified by	Clyde T. Nieh	P. E. state <u>CA</u> Reg. no. <u>15587</u>
Design report* certified by	Francis J. Domino	P. E. state. NY Reg. no. 36832
	CERTIFICATE OF SHOP COMPLIANCE	
We certify that the statements made in conform to the rules of construction conforms.	this report are correct and that this (these)	Trigger Body Subassembly
ASME Certificate of Authorization n	o. N1850	Expires September 2, 1995
Date 3/1 7/23 Name	Conax Buffalo Corporation Signe	Richard E. Dulski, QA Manager
	CERTIFICATE OF SHOP INSPECTION	
	mission issued by the National Board of Boiler an ployed by H.S.B.L. & T. Co.	
of Hartford. CT have inspected best of my knowledge and belief, the continuity section III. Each part listed has been a By signing this certificate, neither the described in this data report. Furtherm	ected these items described in this data report or	purtenances in accordance with the ASME Code, expressed or implied, concerning the equal to the expressed or implied.

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

•	6	114	195
D-	1	-4	1

1	. As Rec	quired by the Provisions Not To Excee	of the ASME Code, ed One Day's Produc	-	ision 1 6/14/95 Pg 1 of 1
	tanufactured and certified by .		(name and address o	r certificate holder)	Cheektowaga, NY 14225
2. M	famulactured for Washill	igcon Fublic Fower .	(name and address of pur	chase()	
3. L	ocation of installation	WNP-2, Richland, V	NA .	<del></del>	
	ype N38017, Rev. F	•	(name and addres	N/A (CRN)	1993 tyear builts
5. A	SME Code, Section III:	<u>77</u> · · ·	S77	1	N/A
	abricated in accordance with	(edition)	(addenda)	[class]	(Code Case no )
7. R	liquid cont	ing for explosive action system.		placement kit	for standby
	om. thickness (in.)			this report:	th overall (ft. & in.) N/A  National
	Serial Number	Board No.	Serial N		Board Number
		in Numerical Order			in Numerical Order
1/1	, 4211	4211	(26)	`	
(2	4212	4212	(27)		
(3	)		(28)		
- 1	·) —————		(29)	1	
	) )		(30)		
· ' · ·	")		(31)		· • · · · · · · · · · · · · · · · · · ·
	,		(33)		
	)		(34)		
(1	O)		(35)		
	1)		(36)	1	
	2)		(37)		
1 -	3)		(38)		
	4)		(39)		· · · · · · · · · · · · · · · · · · ·
	6)		(41)		
	7)	<u>-</u>	(42)		
	8)		(43)		
	9)		(44)		

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

(45)

(46).

(47).(48).(49)

(50)

· · · ~ ~ ~ ~

(20)

(21)

(24)

Supplemental information in form of kets, sketches or drawings may be used provided [1] size is 8<sup>1</sup>/2 Y 11, [2] information in items 2 and 3 on this data report is included on each sheet, [3] each charter and number of sheets a secondar of this form, and [4] each additional sheet shell be sinced by the Complete Secondary Victor (1) and (1)

### FORM N.2 (back)

	CERTIFICATE OF DESIGN				4
Design specifications certified by	Clyde T. Nieh	P. E. state_	CA	_Reg. no	15587
Design report* certified by	Francis J. Domino (when applicable)	P. E. state_	NY	_Reg. no	36832
	CERTIFICATE OF SHOP COMPLIANCE			·	
	ade in this report are correct and that this (these)	Inlet Fittin	<b>Š</b>		
.ASME Certificate of Authorizati	ion no. <u>N-1850</u> Es	xpires <u>Sept</u>	ember	2, 1995	
Date 3/1) 193 Name .	Conax Buffalo Corporation Signed (NPT Centricate Holder)		feoresentat	ÖA Mana	ger
	CERTIFICATE OF SHOP INSPECTION		: !		
ince of New York an	commission issued by the National Board of Boiler and demployed by H.S.B.I. & I. Co.				
of Hartford, CT have best of my knowledge and belief, Section III. Each part listed has b By signing this certificate, neithe described in this data report. Furt	inspected these items described in this data report on the Certificate Holder has fabricated these parts or applied authorized for stamping on the date shown above, in the inspector nor his employer makes any warranty, eithermore, neither the inspector nor his employer shall be ind arising from or connected with this inspection.  Commission	expressed or imple liable in any ma	ordance	with the AS	ME Code,
	(Authorized Inspector)	(Nat'l Rd tine)		010) 01010 00 00	

Date: 6/15/95

Sheet: 1 of 1

Unit: WNP-2



# 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

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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,

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



	FORM NIS-2 OWNER'S REPORT FOR	REPAIRS OR REPLACEMEN	ITS (Back)
8 Tests Co	onducted: Hydrostatic Pneumatic  Test Pressure: 38.8 Psig  Component Design Pressure: 45 Psig	Test Temperature: 74	
9. Remark	(S: None		e e i
	b	•	r e e i
		4	4 4
			en en en la la companya de la compa
		·	
	CERTIFICATE O	OF COMPLIANCE	
to the	rify that the statements made in this Owner's rules of the ASME Code, Section XI	Report are correct and this w	oplacement <i>conforms</i>
	Code Symbol Stamp: Not applicable		
	cate Of Authorization No.: Not applicable tion Date: Not Applicable		
	2 0, 00.	Den	
Prepar		ned By	<u> </u>
	Kuldip Singh - Materials And Inspection	Manager, Material	s And Inspection
Date_		3 274773	<del>-                                    </del>
			i i j .•• i j
•			· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF INS	SERVICE INSPECTION	
Vessel (Factory descrii state to correct ASME By sign implied Further		employed by Arkwright Mutual Inassachusetts have inspected the 1-20-95 to 6-weer has performed examinated out in accordance with the requirement of the employer makes any warranteem as the liable in any manner with the liable in any manner with the ministrons N893/8	surance Company e components IG-95 and ions and taken quirements of the ranty, expressed or Owner's Report. If for any personal Is inspection
1_	Inspector's Signature	National Board, Sta	ite, and Endorsements
Date	6-22-95		

Date: 7/31/95

Sheet: 1 of 1

Unit: WNP-2

# 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: 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-G001 C-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 "Bailty" 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



9 Tests Condu	cted: Hydrostatic Pne Test Pressure: 1023 Psig Component Design Pre	,	inal Operating Test Temp Temperatu	erature: 198.60 F	Other No.
t) See attached "R locumenting the m	See attached NV-1 (Pre - Modification opair And Replacement To Nuclear odification (upgrade) work performent pressure test on the relief valve in	r Components And Syste ed by Crosby for "Bailly"	ms in Nuclear Pov MSRV, Serial No N	ver Plants" Certificatio 156000-01-0100	
					· · ·
	CER	RTIFICATE OF CO	MPLIANCE		: !
to the rules Type Code Certificate (	hat the statements made in of the ASME Code, Section Symbol Stamp: Not Applicable Of Authorization No.: Not Applicable Date: Not Applicable  Y Kuldip Singh - Materials And in 8/2/55	olicable Signed B	,	ger, Materials And Ins	
	CERTIFIC	CATE OF INSERVI	CE INSPECTION	ON .	•
Vessel Insp (Factory Mutt described it state to the corrective m ASME Code By signing implied, con Furthermore	signed, holding a valid comectors and the State of Was ual Engineering Association) of this Owner's Report during best of my knowledge and measures described in this estation XI this certificate neither the lincerning the examinations are, neither the inspector nor operty damage or a loss of the common the state of	shington and employ of Norwood, Massaching the period belief, the Owner however in Owner's Report in Inspector nor his eland corrective means and corrective means and corrective shall be the semployer shall be the owner's help of the owner's help	ved by Arkwigh usetts have ins 1/7 - 95 as performed accordance with the performance with the liable in at the liable in at	at Mutual Insurance pected the complete S-2-9 sexaminations and the requirement of any warranty, each in this Owner on manner for an	c Company conents and d taken ents of the expressed or s Report. y personal

CROSBY

### . CROSBY VALVE & WAVE CUMPANYL

PLAN NO. 2-1139 Ruedib Eugs

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

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

=			
Mi	1.	Work performed by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093	
	L	(Name and Address) (Repair organization's P.O. No., Job No., etc.). NV4000020	
	2.	Owner WASHINGTON PUBLIC POWER RICHLAND, WA 99352-0968	
별		- (Name and Address)	علب
	з.	Name and Identification of Nuclear Power Plant HANFORD #2	
耳	<u>_</u>		F_
	4.	Address of Nuclear Power Plant_RICHLAND_WA	
詈			
3	5.	a. Identifying Nos. N63790-00-0139 1973	
₽.		(Mfr's Serial No.) (Nat'l Bd. No.) (Jurisdiction No.) (Other) (Year Built)	E
Æ		b. Identification of component repaired or replacement component	-E
=		c. Name of Manufacturer CROSBY VALVE & GAGE COMPANY	_=
3	_		Ŧ
늴	c	Tarte conducted Understein (C) Comments ( ) Control Service ( ) Comments ( ) Control (C)	E
₫	٥.	Tests conducted: Hydrostatic (X) Pneumatic ( ) Design Pressure ( ). Pressure 2370.0 psi	E
月	7.	Identification of System MAIN STEAM	
:}	_	A M III	Ē
<u>=</u>	ၓ.	Applicable Section(s)lll of ASME Code, 19 <u>71</u> Edition	
∄		Addenda NO Code Case -	▕
3	_	7000 VISC	_;==
7	a		==
į	J.	Description of work N56000-01-0100 WAS MODIFIED TO N63790-00-0139	
	J.	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)	
=	J.	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.	
	J.	(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified) ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI,1980 EDITION WINTER 1980 ADDENDA.  Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:  PART PART NO. MODIFIED TO PART NO.	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:  PART PART NO. MODIFIED TO PART NO.  BODY N90118 N93183-45-0128	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI,1980 EDITION WINTER 1980 ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI,1980 EDITION WINTER 1980 ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980-ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980-ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI,1980 EDITION WINTER 1980-ADDENDA.  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 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 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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI.1980 EDITION WINTER 1980-ADDENDA.  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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI,1980 EDITION WINTER 1980-ADDENDA.  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 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 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	
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)  ASME SEC.XI,1980 EDITION WINTER 1980-ADDENDA.  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 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 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	

Certificate H	older s Senal Nos	163790-00-0139	i i i <b>ii</b>	ET 2 OF 2
	CERTIFICA	TE OF COMPLIA		
We certify that the statemen		t are correct and all design		nanship on the
(repair/replacement)				म्ब्र <u>मा</u> क
	, 1			(1)
Signed <u>aurine</u>	p. of Repair Organiza	Q A Eng Man	100 24 Fee	1994
Edit.	p. or nepair organiza	uony / (1146)		
		TO STATE OF	n	
	CERTIFICAT	E OF INSPECTIO	N .	
. 1, the undersigned, holding a v				
of <u>Norwood Massachusetts</u> Fb 2 1994	have inspect and state that to the	ed the repair or replaceme best of my knowledge and	nt described in this re I belief, this repair or	port on
has been made or constructed By signing this certificate, neit				implied.
concerning the repair or replace shall be liable in any manner for	ernent described in the or any personal injury	nis report.   Furthermore, n	either the inspector n	or his employed基準
connected with this inspection	l.	Factory i	- Mutual Systems	

Commissions

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

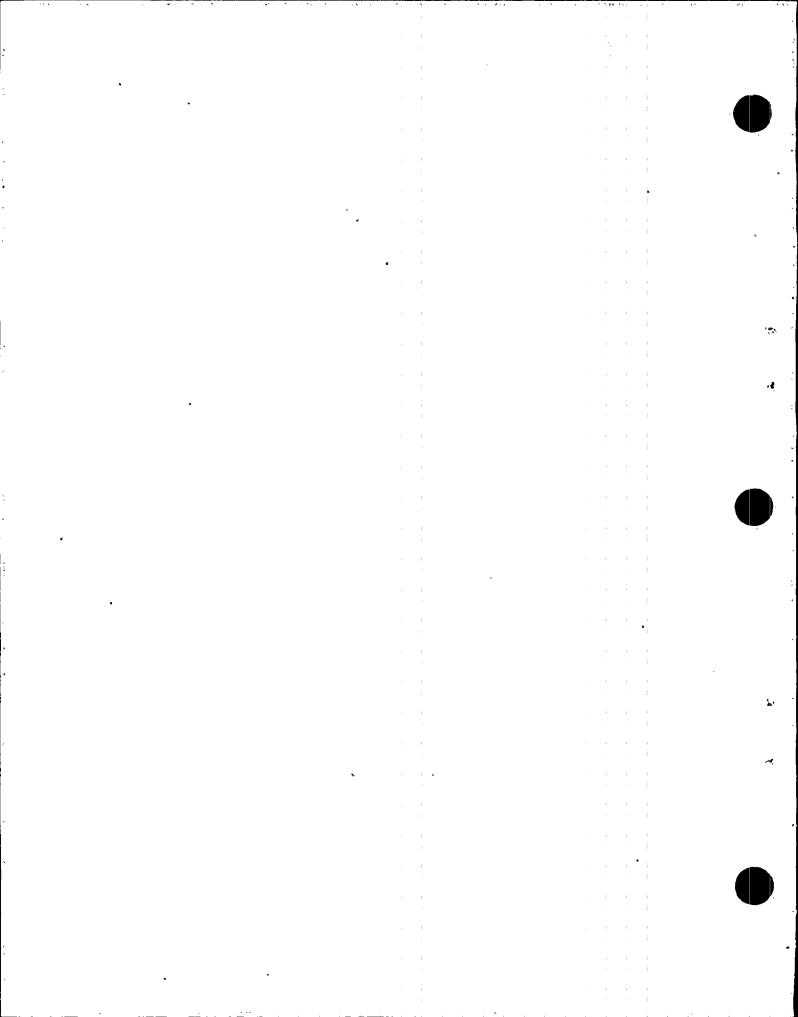
# PLAN NO. 2-1139

Rulaip Surps

WPPSS S/N	WPPSS Set	<u>Bailly S/N</u>	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 .

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# CROSBY VALVE & GAGE COMPANY

WRENTHAM, MASS

Rulang Buit

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 V	alves	
1. Manufactured By Crosby Valve HB-65-BP-	e & Gage Co., 43 Kendr	cick St., Wrentham, Mass. 02093	
	•• •• •• •• •• •• •• •• •• •• •• •• ••	te 1/27/75 National Board No.	<del></del>
2. Manufactured For San Jose, Co	alifornia 95125 me and Address	Order No. 205-AD148	
	lic Service Co., Bail	ly Generating Station Nuclear 1	<u></u>
Dati Santa a	Name and Address		
4. Location of Plant Baileytown, Spare	Indiana		
5. Valve Identification MPL#B22-F013	Serial No. N56000-01-	0100 Drawing No. H-56000 Rev. 0	<u>;                                    </u>
Type Safety Relie	efOnlice Size	R Pipe Size Inch Inch Outlet I	.0
Safety, Safety Relief, Pilot, Power	Actuated	Inch Inch Inch	Inch
6. Set Pressure (PSIG) 1130	<del></del>	575 <sup>0</sup>	F
	•	Rated Temperature	
Stamped Capacity 850500#/Hr.	Sat. 3 % Overpo	ressureBlowdown (PSIG)5Z	
	,	•	
Hydrostatic Test (PSIG) Inlet23	370 Com	plete Valve 825	
7. The material_design, construction and	workmanship comply with ASM	E Code, Section III.	
		<b>;</b> `	
Class Edition 19/	,Addenda Date <u>Su</u>	mmer 1972 ,Case No	
Pressure Containing or Pressure Retain	ning Components		
•	Serial No.	Material Specification	
a. ŒŒŒŒ Forging	[dentification	Including Type or Grade	
Date: N	N90118-35-0031	ASTM Al05-71 ASME SAl05	
Body 7	1170220 33 0032	ASTM A105-71	
Bonnet	N89717-36-0086	ASME SALO5	
, b. Bar Stock and Forgings		•	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	N89715-36-0107	ASTM A564-71 Type 630 ASME SA564 Type 630	
AMPRAKABADISC HISERT	N89713-33-0051	ASTM A182-71 Type 316	
Nozzle	103172-22-0027	ASME SA182 Type 316	
Disc Holder K55484-39-013		AMS 5662B	
Spring Washers K55466-36-009.	N89724-36-0111 5 N89723-38-0129	ASTM A105-71 ASME SA105	
	N89726-40-0133	ASTM A193-/1 Gr. B6 ASME SA193 Gr. B6	
Adjusting Bolt Spindle K55465-35-0104	<del></del>	ASTM A564 Type 630	
•	N89720-38-0126	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	Material Specification
· •	Identification	Including Type or Grade
e. 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 G+ B7
Bonnet Nut	N89719-1228 thru	1239 ASME SA194 Gr. 2H
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
	1 1 1 1	
Date <u>6-27</u> 19 76 Signed:	Manufacturer	QA Manager
•	• • •	
CERT	rificate of shop inspe	CTION
Pressure Vessel Inspectors and Factory Mutual Systems inspected the equipment descripants to the best of my known in accordance with the approximation.	the State or Province of Lems*, Norwood, Massbed in this Data Report on wiledge and belief, the Manupilicable Subsections of ASI	19 and ufacturer has constructed this equip-
pressed or implied, concerning	the equipment described in shall be liable in any mann	employer makes any warranty, ex- this Data Report. Furthermore, neither er for any personal injury or property th this inspection.

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

- Commissions National Board, State, Province and No.:

Date: 7/31/95

Sheet: 1 of 1

Unit: WNP-2



# 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: 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



8 Tests (	S Conducted: Hydrostatic Pneumatic Nom Test Pressure: 1023/7.5 Psig Component Design Pressure: 1250 Psig	ninal Operating Pressure X Other Nor Test Temperature: 198.6/72° F Temperature: 575° F
2) Nominal	narks: 1) See attached NV-1 Code Data Report for MSRV, Serial No nal operating pressure test on the relief valve inlet joint - Test pressure matic pressure test on the relief valve body to bonnet joint - Test press	of 1023 Pskg and test temperature of 198.60 F
	CERTIFICATE OF CO	OMPLIANCE
to the Type Certif	certify that the statements made in this Owner's Report the rules of the ASME Code, Section XI per Code Symbol Stamp: Not Applicable of Authorization No.: Not Applicable poliration Date: Not Applicable	ort are correct and this replacement conforms
Prepa Date_	Repared By Kuldip Singh - Materials And Inspection  Re 8285 Date	Manager, Materials And Inspection 8/15/95
	· · · · · · · · · · · · · · · · · · ·	
	CERTIFICATE OF INSERVI	ICE INSPECTION
Vesse (Facto descr state correc ASME By sig implie Furth	ne undersigned, holding a valid commission issued by seel inspectors and the State of Washington and employed the State of Washington and employed in this Owner's Report during the period / ** te to the best of my knowledge and belief, the Owner's rective measures described in this Owner's Report in ME Code, Section XI signing this certificate neither the Inspector nor his explied, concerning the examinations and corrective measure, neither the Inspector nor his employer shall arry or property damage or a loss of any kind arising from the property damage or a loss of any kind arising from the section of the sectio	husetts have inspected the components husetts have inspected the components has performed examinations and taken has performed examinations and taken haccordance with the requirements of the employer makes any warranty, expressed or has ures described in this Owner's Report. Hill be liable in any manner for any personal
Date_	Culcf. Commis Inspector's Signature te August 16, 1995	National Board, State, and Endorsements

# CROSBY

# CROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

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

Q.C.-44D

### DATA REPORT Safety and Safety Relief Valves

•= •		rech and parech wetter As	77.4C2
. 1	Manufactured By Crosby Valve	& Gage Company, 43 Kendr	ick 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.	General Manufactured For San Jos	Electric Company, 17 e, CA 95125	
•		iame and Address	Order No. <u>205-AJ986</u>
3.	-	·• ·· ··	Richland, Washington 99352
•		Name and Address	
4.	Location of Plant Hanford	Reservation, Richla	ind, Washington 99352
5.	Valve Identification MPL #B22	-F013 Serial No. N63790-	00-0054 Drawing No. DS-A-63790 Rev.
	Type Safety Relief	Orifice Size R	Pipe Size Inlet 6 Outlet 10
	Safety, Safety Relief, Pi	lot. I	nch
	Power Actuated		ter medicities for
6.	Set Pressure (psig)	1185	575° F
		_	Rated Temperature
	Stamped Capacity 891,750		Blowdown (psig) 2% to 11%
	Hydrostatic Test (psig) Inlet_		975 psig (Assembled Valve) 1100 psig (Body Only)
Pr	essure Retaining Pieces	. (Applic	cable to Valves for Closed Systems Only)
•		S ( 3 N	
	Bar Stock & Forgings	Serial No. Identification	Material Specification
z.	par stock a rorgings		Including Type or Grade
	Body	N93183-35-0073	ASTM A105-71 Gr. II ASME SA105 Gr. II
•		•	ASTM A105-71 Gr. II
	Bonnet :	N93407-35-0036	ASTM A105-71 Gr. II ASME SA105 Gr. II
ъ.	<b>BERGEOGRESCENCIA SPERIALISE</b>		•
	soppodomon Disc Insert	N93185-34-0086	ASME SA637 Gr. 718
	Nozzle ·	<u>N93184-33-0058</u>	ASME SA182 Gr. F316
	Disc Holder*K55484-35-0090	*N89714-34-0090	AMS 5662B
	••	¥62856-25-0002	ASTM A105-/1 Gr. 11
•	Spring Washers K62858-35-0036	K62857-35-0057	ASME SA105 Gr. II
	Adjusting Bolt	N93410-33-0061	ASME SA193 Gr. B6
•	Spindle Point K62873-35-005	54 *N89720-34-0093	ASTM A564-71 Type 630 ASME SA564 Type 630
	Spring K62858-35-0036	'NX2689-0117	ASTM A304-66 Gr. 4161H
	Bolting	11111007-011/	
	Spindle Ball Commession K62873-35-0054	N93213-0054	<u> 7 X 0 0 3 8 0 1 3 7</u>
e. )			Stellite #6
	Thrust Bearing Adapter	N93409-32-0056	ASME SA193 Gr. B6 ASIM A193-71 Gr. B7
		17) N93207-0645 thru	0656 ASME SA193 Gr. B7
	Bonnet Stud Nut (J	87) N93210-0865 thru	0876 · ASME SA194 Gr. 2H
	Inlet Stud (B	W6) N93216-0647 thru	0658 ASTY A193-71 Gr 87
	•		ASTM A194-71 Gr. 2H
		W8) N93218-0651 thru	0662 ASME SA194 Gr. 2H
	Adjusting Bolt Button	N93411-35-0063	ASME SAL93 Gr. B6

'∺.' '.	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 (Date),
	Date 11-5-80 Signed Crosby Valve & Gage Co. by R.G. Cadarus (N. Certificate Holder)
	Our ASME Certificate of Authorization No. 1878 to use the NV
	symbol expires September 30, 1983 (Date)
L	
	. CERTIFICATION OF DESIGN
	Design information on file at Crosby Valve & Gage Company
١	Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company
١	43 Kendrick Street, Wrentham, Massachusetts 02093
١	Design specifications certified by Boyd P. Brooks
ŀ	PE State California Reg. No. 13655
	Stress report certified by W.D. Greenlaw
	PE State Massachusetts Reg. No. 14784
	Isignature not required - list name only.
T	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 1119, 1900 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  Signed  Commissions MASS 1266  (Nat'l. Ed., State, Prov. and Nat'l.
1	(Nat'l. Ed., State, Prov. and N

Talve originally bullt against crosby order no. https:// nosciences/ noscience

Date: 7/31/95 Sheet: 1 of 1

Unit: WNP-2



# 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: 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



B Tests Conducted: Hydrostatic Pneumatic Test Pressure: 1023/7.5 Psig Component Design Pressure:	Test Temperature: 198.6/69° F  Temperature: 575° F
<ol> <li>Remarks: 1) See attached NV-1 Code Data Report for MS</li> <li>Nominal operating pressure test on the relief valve inlet joint</li> <li>Pneumatic pressure test on the relief valve body to bonnet joint</li> </ol>	- Test pressure of 1023 Psig and test temperature of 198.60 F
CERTIFICA	ATE OF COMPLIANCE
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 Ludy Guerry Kuldip Singh Materials And Inspection Date 8295	Signed By  Manager, Materials And Inspection  Date
I, the undersigned, holding a valid commission Vessel Inspectors and the State of Washington	OF INSERVICE INSPECTION on Issued by the National Board of Boller and Pressure a and employed by Arkwright Mutual Insurance Company
described in this Owner's Report during the p state to the best of my knowledge and belief, corrective measures described in this Owner' ASME Code, Section XI By signing this certificate neither the inspect implied, concerning the examinations and col Furthermore, neither the inspector nor his em	to 8-2-95 and the Owner has performed examinations and taken it's Report in accordance with the requirements of the for nor his employer makes any warranty, expressed or prective measures described in this Owner's Report in any manner for any personal and arising from or connected with this inspection  Commissions N873/8 93/80 ANE  National Board, State, and Endorsements

# PLAN NO. 2-1141

Durch Sups

CROSBY	CROSBY VÄLVE WRENTH	A GAGE COMPANY AM, MASS
	OR SAFETY AND SAFETY RELIEF V the Previsions of the ASME Go DATA REPORT	
Safer	ty and Salety Reliaf Valves	
1. Hamulactured by Crosby Yalve L	Gage Company, 47 Kengrick St	Vrenthen. MA 02093
Hodel No.HB-65-BP-FN Order No.	M94275 Contract Date	4/24/79 National Board No. N/A
2. Negulactured For San Jose		Order- No. 205-A1986
J. Ower Washington Public Pow		nd, Washington 99352
4. Location of Plant Hanford Re	Name and Address eservation, Richland, Wa	shington 99352
5. Valve Identification HPL 4822-	F013Serial No. N63790-00-0	0580 Tawing No. DS-A-63790 Rev. C
Type <u>Safety Relief</u> Safety, Safety Relief, Pile Power Actuated		pe Size Inlet 6 Outlet 10 Inch
6. Set Pressure (peig) 1195		· 575° r
200 195		Rated Tomperature
Stamped Capacity 899,185		975 psis (Assembled Valve) 1100 psis (Body Only)
Hydrostatic Test (saig) Inlet	2370 Outlet	1100 psis (Body Only) to Valves for Closed Systems Only)
Pressure Satzining Pietes		•
Bar Stock & Forgings	Serial Mo. Identification	Material Specification Including Type or Grade
Body	N93183-35-0077	ASTE \$195572.Gr11 <sup>II</sup>
Sormer	N93407-35-0040	ASTM A105-71 Gr. II ASME SA105 Gr. II
b. Menthousedanning		•
MANIGHOUSEME Disc Insert	N93185-34-0090	ASHE SA637 Gr. 7
Nessie	N93184-33-0062	ASHZ SA182 Gr. FJ.
Disc Holder+K55484-35-0093 _	≈N89714-34-0094	ANS 5662B
Sering Mechern K62858-35-0040	¥6383 <del>9-</del> 35-8886	ASTH A105-71 Gr. II ASHE SA105 Gr. II
Adjusting Solt	N93410-33-0065	ASHE SA193 Gr. B6
Spindle Point K62873-35-0058	*N89720-34-0070	ASTHE \$4564-71 Type 630
c. Sering K62858-35-0040	*N89722-0016 .	ASTH A304-66 Gr. 4161H
. 4. Solting .		
. Spindle Ball K62873-35-0058	N93213-0058	Stellite #6
Thrust Bearing Adapter	N93409-32-0060	ASRE SA193 Gr. 86 ASRE SA193-71 Gr. 87
Bonnet Stud Huz (J87 Bonnet Stud Huz (J87		ASHE SA194 Gr. 2H
		ASIA \$1755/6-24
Inlet Stud (BU6	) N93216-0695 thru 0706	ASDE SA191 Gr. B7

Adjusting Bolt Button K63618-33-0067

tun impanimenti littl

ZX00382751

Valve originally brilt against Crosby Order No. N103600, Assembly No. N56000, Valve modification consists of replacement of the Disc Insert, Notzle, Bonnet Stud Nuts, Adjusting Bolt, and Thrust Bearing Adapter, remachining of the Body. Spring Mashers, Bonnet, and Spindle Assembly, and adding an Adjusting Bolt Sutton Assembly, New Serialization is required unless indicated by an atteriak.

CHARLES AF ALLO THE C	<del></del>	1
CIRTIFICATE OF COMPLIANCE		
We certify that the statements made in this report are correct	and that this valve conforms	- 1
to the rules of construction of the ASME Code for Nuclear Power III. Div. 1. 1971 Edition, Addenda No Addenda . Code	Plant Components, Section	- 1
Class 1 (Date)	- case io. 128771111	i
	PGC X	
Date //-5-/ Signed Crosby Valve & Gage Co. by (N Certificate Holder)	1. 4. Colombia	
Our ASSE Certificate of Authorization No.   1878	to use the NV	1
		1
symbol expires September 30, 1983 . (Date:		
\text{\text{caree}}		
CERTIFICATION OF DESIGN		-
D' A		
Design information on fire at Crosby Valve & Gage Company		- 1
Stress analysis report (Class 1 only) on file atCrosby Valve		1
43 Kendrick Street, Wrentham, Hassachusetts 02093		
Design specifications certified by Boyd P. Brooks		-
PE State California Reg. Mo.	23635	- 1
Stress report certified by U.D. Greenlaw		1
FZ State Massachusetts Reg. No.	14784	1,4
	a a a a	.,
Isignature not required - list name only.		
I, the undersigned, holding a valid commission issued by the Nat Pressure Vessel Improcurrs and the State or Province of Massact and employed by Factory Vitual Systems (1985)	husetts	 
and employed by Factory Mitual Systems of Norwood, Hassi have inspected the pump, or valve, described in this Data Repor	E On 11/25 . 95 .:	i
resar vestagrad rue hosts of adilas, described for ruth ners valor.		
and state that to the best of my knowledge and belief, the N Ce	TTIFICATE Holder has :	- 1
and state that to the best of my knowledge and belief, the N Cerconstructed this pump, or valve, in accordance with the ASME Co-	TTIFICATE Holder has :	ı
and state that to the best of my knowledge and belief, the N Cerconstructed this pump, or valve, in accordance with the ASME Co-Components.	rrificate Holder haa- de for Huclear Pover Plant	1
and state that to the best of my knowledge and belief, the N Cerconstructed this pump, or valve, in accordance with the ASME Co-	erificate Holder has de for Nuclear Power Plant	:
and state that to the best of my knowledge and belief, the N Cerconstructed this pump, or valve, in accordance with the ASME Co-Components.  By signing this certificate, neither the Inspector nor his empleyerment or implied, commanding the equipment described in this more, neither the Inspector nor his employer shall be liable in	oyer makes any warrant, a Data Report. Further-	1 1 1
and state that to the best of my knowledge and belief, the N Cerconstructed this pump, or valve, in accordance with the ASME Co-Components.  By signing this certificate, neither the Inspector nor his empleyments or implied, occurring the equipment described in this more, neither the Inspector nor his employer shall be liable in personal injury or property damage or a loss of any kind arising this inspection.	oyer makes any warrant.  a Data Report. Further— any manner for any g from or connected with	1 1 1
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Date: 7/31/95

Sheet: 1 of 1

Unit: WNP-2

# 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: 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



ests Conducted: Hydrostatic		inal Operating Pre Test Temperat Temperature: 5	<i>ure:</i> 198.6/72 <sup>0</sup> F	Noi
Remarks: 1) See attached NV-1 Code Data is cominal operating pressure test on the relief valve body neumatic pressure test on the relief valve body	ve inlet joint - Test pressure	of 1023 Psig and test to	mperature of 198.6° F temperature of 72° F	; ; 1 1
·				
			e e e l	
	· !			
C	ERTIFICATE OF CO	MPLIANCE		
We certify that the statements made	in this Owner's Bene	ort pre correct and	this renincement conform	<b>.</b>
to the rules of the ASME Code, Sect		itais collect alla	ans replacement comorni	<b>.</b>
Type Code Symbol Stamp: Not Applica		1 1 1 ! !		
Certificate Of Authorization No.: Not.	Applicable	1 1 1 1	l i i i i	
Expiration Date: Not Applicable				
Prepared By Tudits Su	Signed By	,	ME	_,
Kuldip Singh - Materials Ar	d Inspection	Manager, M	Naterials And Inspection	
Date812195	Date	8/15/95		
		7		
	·			
•			·	
	6 I			
CERTI	FICATE OF INSERVI	CE INSPECTION		1 1
l, the undersigned, holding a valid c Vessel inspectors and the State of V Factory Mutual Engineering Association described in this Owner's Report du	Vashington <i>and employ</i> n) of Norwood, Massachi	<i>red by</i> Arkwright Mu usetts <i>have inspec</i>	itual Insurance Company ted the components	
state to the best of my knowledge a				
corrective measures described in th				1
ASME Code, Section XI				
By signing this certificate neither th	e inspector nor his en	nployer makes an	y warranty, expressed o	j-
implied, concerning the examination	ns and corrective mea	sures described i	n this Owner's Report.	
Furthermore, neither the inspector i				1 1
njury or property damage or a loss	of any kind arising fro	om or connected w	vith this inspection	
007()				
Cent 1 Just	Commiss	sions <u>NB 93/8</u>		
Inspector's Stignature		National Bot	ard, State, and Endorsements	
Date Museum 16, 19	95	National Bot	ard, State, and Endorsements	

PLAN MO. 2-1142.

ASME SA193 Gr. B6

### CROSBY

Adjusting Bolt Button K63618-?3-0065

# 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

	an a second to the Company of the Company		
	- Hanufactured By Crosby Val	Name and Address	lex St., Wrentham, AX 02093
	Model No. HB-65-BP-FNOrd	er No. N94275 Contract	Date 4/24/79 National Board No. N/A
•	Gener	al Electric Company, 17	75 Curtner Ave., 205-AJ986
2	. Hanufactured For San J	Name and Address	Order No203-AJ986
i_	. Washington Bublic		Ichland, Washington 99352
<i>j</i> . J.	. Deller wastiring ton 1 do not	Name and Address	· · · · · · · · · · · · · · · · · · ·
4.	Location of Plant Hanfo	rd Reservation, Richlan	nd, Washington 99352
	•		
5.		22-F013 Serial No. N63790-	-00-0056 Drawing No. DS-A-63790 Rev. (
	Type Safety Relief		R Pipe Size — Inler 6 Outlet 10
	Safery, Safery Relief, Power Actuared	Pilot, _ I	nch Inch Inch Inch
6.	Ser Pressure (psig)	1195	575° F.
		-	Raced Temperature
	Stamped Capacity 899,18	5 <u>A</u> 3 ZOverpressure	Blowdown (psig) 2% to 11%
	Hydroscacic Test (paig) Inic	et 2370 Outlet	975 psig (Assembled Valve) 1100 psig (Body Only)
			cable to Valves for Closed Systems Only)
P	essure Recaining Pieces	•	
	Design Charles of The American	. Serial No. Idencificacion	Material Specification Including Type or Grade
2.	Bar Stock & Forgings	Addititied to the	•••••
	Body	· <u>N93183-35-0075</u>	ASTM A105 -71 Gr. II ASME SA105 Gr. II
		700/07 05 0000	ASTM A105 -71 Gr. II. \:
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	N93407-35-0038	ASME SAIOS GENITEDAN
		, , , , , , , , , , , , , , , , , ,	, C
	Morphoxicemix Disc Insert	<u> </u>	ASME SA637 Gr. 718
•	Nozzle	<u>N93184-33-0060</u>	ASME SA182 Gr. F316.
٠	Disc Holder*K55484-35-009	96 *N89714-34-0107	AMS 5662B
		7620E6 25 0004	ASTM A105-71 Gr. II
•	Spring Washers K62858-35-00	K62857-35-0059	ASME SA105 Gr. II
:	Adjusting Bolt	· <u>N93410-33-0063</u>	ASME SA193 Gr. B6
	Spindle Point K62873-35-00	056 <u>*N89720-34-0069</u>	ASTM A564-71 Type 630 ASME SA564 Type 630
c.	Spring K62858-35-0038	*N89722-0014	ASTM A304-66 Gr. 4161H
ď.,	Bolting		<u> </u>
e_':	Bolting Spindle Ball Convente K62873-35-00	056 <u>N93213-0056</u>	Stellite #6
	Thrust Bearing Adapter	พ93409-32-0058	ASME SA193 Gr. B6
	Bonnet Stud	(I17) N93207-0669 Chru	
	Bonnet Stud Nut	(J87) N93210-0889 chru	
	Inlet Stud	(BW6) N93216-0671 chru	
	Inlet .Stud Nut	(BW8) N93218-0675 thru	ASTM A194-71 Cm 21

N93411-33-0065

	Valve originally built against Crosby Order No.	X103600 1-		W- WEEDO	10 Traite	
<u>.</u>	valve drightaply onlic against crossy order no.	C Insert. No	semora emora	No. <u>Noout</u> Conner Sau	d Nuts	• .
- 11_	Adjusting Bolt, and Thrust Bearing Adapter, rem	achining of	the Boo	y. Spring	Washer:	S.
-	Bonnet, and Spindle Assembly, and adding an Adj	usting Bolt	Button	Assembly.	New	
	. Serialization is required unless indicated by a		f		1 1 1	1 1
•	Original nameplate removed and new nameplate at	tached.		103790-00	2-0056	
	CERTIFICATE OF C	OMPLTANCE :				
	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	
	We cerrify that the statements made in this repor	rt are correct	t and ti	hat this v	alve con	forms
	to the rules of construction of the ASME Code for					
	III, Div. 1, 1971 Edition, Addenda No. Ad		ode Cas	No156	7 & 1711	
	Class 1	Date);		•	: :	-
i	Date 11-5-80 Signed Crosby Valve &	Gage Co in		15 13		9/
- 1	. (N Certificate	Holder)		9-100	ace es	
	Our ASME Certificate of Authorization No.	•		to use t	XIII	
	Our ASME Certificate of Authorization No.	10/0		co use c	ue w	<del></del>
	symbol expires September 30, 1983 -	•		•		
	(Date)				, .	•
1					i	
		,			)	
- [		7 555700		. ,	1	
	CERTIFICATION O	E DESIGN			<b>].</b> ! '	
	Design information on file at Crosby Valve 8	Gage Compar	1 <del>0</del> : :			, ,
-					i i	<del></del>
-	Stress analysis report (Class 1 only) on file at_	Crospa AsTAG	& Gag	e Company	<del> </del>	<del></del>
-	43 Kendrick Street, Wrentham, Massachusetts 02		<del>-</del>	_ <u></u>	1	
-	Design specifications certified by Boyd	P_ Brooks	1 1 1			
-	0-116	Reg. No.	1	36 <i>55</i>		
j		Greenlaw		<u> </u>		
١	Stress report certified by			1 1 1 7		
					<del></del>	
ı		Reg. No.	<u>i</u> 1.	4784	<del></del>	
	PE State Massachusetts		1.	478 <b>4</b>	· · · · · · · · · · · · · · · · · ·	
			<u>i</u> 1.	478Å	· · · · ·	
	PE State Massachusetts					
	PE State Massachusetts			4784 AU 1755	erenes.	
	PE State Massachusetts  I Signature not required - list name only.	Reg. No.			FIFER	
	PE State Massachusetts	Reg. No.				
	PE State Massachusetts  I Signature not required - list name only.	Reg. No	CESTS E GAL	AME WEST		V:54
	I Signature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Provi	Reg. No INSPECTION sued by the N	ational chuser	Board of		V:54
	I Signature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of	INSPECTION sued by the Norwood, Massa	ational chusert	Board of	Boller	and:
·	I Signature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the state of the pump.	INSPECTION sued by the N nce of Massa Norwood, Mas his Data Repo	ational chusert sachuse	Board of	Boiler	and:
	I Signature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be	INSPECTION sued by the N nce of Massa Norwood, Mas his Data Repo	ational chusert sachuse rt on ertific	Board of	Boiler	80 ,
·	ISignature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the state that to the best of my knowledge and be constructed this pump, or valve, in accordance with	INSPECTION sued by the N nce of Massa Norwood, Mas his Data Repo	ational chusert sachuse rt on ertific	Board of	Boiler	
	I Signature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be	INSPECTION sued by the N nce of Massa Norwood, Mas his Data Repo	ational chusert sachuse rt on ertific	Board of	Boiler	80 ,
	I Signature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Provious and employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be constructed this pump, or valve, in accordance will components.  By signing this certificate, neither the Inspector	INSPECTION sued by the N nce of Massa Norwood, Mas his Data Repo lief, the N C th the ASME C	ational chusert sachuse rr on errific ode for	Board of street Holder Nuclear	Boiler 19 c has	BO .
	Isignature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Proving and employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be constructed this pump, or valve, in accordance will Components.  By signing this certificate, neither the Inspector expressed or implied, concerning the equipment described in the suppressed or implied.	Reg. No	ational chusert sachuse rt on ertific ode for loyer r is Data	Board of  S  TES  ALC Holde: Nuclear  Report	Boiler :	BO .
	I Signature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Proviment employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be constructed this pump, or valve, in accordance will Components.  By signing this certificate, neither the Inspector expressed or implied, concerning the equipment demore, neither the Inspector nor his employer shall	INSPECTION  sued by the Nonce of Massa Norwood, Mas his Data Repolief, the Nother Control of the ASME Cont	ational chusert sachuse rt on ertific ode for loyer mis Data n any m	Board of  S  CES  Auc Holder  Nuclear  Report  anner for	Boiler: Boiler: Power Plants Further any	BO ,
	I Signature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be constructed this pump, or valve, in accordance will Components.  By signing this certificate, neither the Inspector expressed or implied, concerning the equipment demore, neither the Inspector nor his employer shall personal injury or property damage or a loss of an	INSPECTION  sued by the Nonce of Massa Norwood, Mas his Data Repo lief, the N C th the ASME C	ational chusert sachuse rt on ertific ode for loyer mis Data n any m	Board of  S  CES  Auc Holder  Nuclear  Report  anner for	Boiler: Boiler: Power Plants Further any	BO ,
	I Signature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be constructed this pump, or valve, in accordance will Components.  By signing this certificate, neither the Inspector expressed or implied, concerning the equipment desmore, neither the Inspector nor his employer shall	INSPECTION  sued by the Nonce of Massa Norwood, Mas his Data Repo lief, the N C th the ASME C	ational chusert sachuse rt on ertific ode for loyer mis Data n any m	Board of  S  CES  Auc Holder  Nuclear  Report  anner for	Boiler: Boiler: Power Plants Further any	BO ;
	Isignature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be constructed this pump, or valve, in accordance will Components.  By signing this certificate, neither the Inspector expressed or implied, concerning the equipment demore, neither the Inspector nor his employer shall personal injury or property damage or a loss of an	INSPECTION  sued by the Nonce of Massa Norwood, Mas his Data Repo lief, the N C th the ASME C	ational chusert sachuse rt on ertific ode for loyer mis Data n any m	Board of  S  CES  Auc Holder  Nuclear  Report  anner for	Boiler: Boiler: Power Plants Further any	BO ;
	Isignature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be constructed this pump, or valve, in accordance with Components.  By signing this certificate, neither the Inspector expressed or implied, concerning the equipment demore, neither the Inspector nor his employer shall personal injury or property damage or a loss of an this inspection.  Date 1980	Reg. No.  INSPECTION  sued by the Nonce of Massa Norwood, Mas his Data Repolief, the Noch the ASME Control of the Asme control	ational chusert sachuse rt on ertific ode for loyer mis Data n any m	Board of S  Ets  Auch Holder  Nuclear  Report  anner for connect	Boiler: Boiler: Power Plants Further any	BO ;
	Isignature not required - list name only.  CERTIFICATE OF SHOP  I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Providend employed by Factory Mutual Systems* of have inspected the pump, or valve, described in the and state that to the best of my knowledge and be constructed this pump, or valve, in accordance will Components.  By signing this certificate, neither the Inspector expressed or implied, concerning the equipment demore, neither the Inspector nor his employer shall personal injury or property damage or a loss of at this inspection.  Date 1980	Reg. No.  INSPECTION  sued by the Nonce of Massa Norwood, Mas his Data Repo lief, the No th the ASME Common this emp scribed in the liable in	ational chusers sachuse rt on ertific ode for loyer mis Data n any mag from	Board of S  Ets  Auch Holder  Nuclear  Report  anner for connect	Boiler : Boi	BO ;

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

# 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: 7/31/95 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

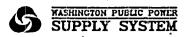
- 3. (a) Work Performed By: Raytheon Engineers & Constructors, PO Box 10, Richland, WA, 99352
  - (b) Repair Organization P.O. No, Job No, etc.: C30893
  - (c) Type Code Symbol Stamp: Not Applicable
  - (d) Certificate Of Authorization No.: Not Applicable
  - (e) Expiration Date: Not Applicable
- 4. 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 Name Component Manufac		National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
B22-G001A WPPS MS-RV-1A Crosb MS-RV-1A Crosb	y N63790-00-0048	N/A N/A N/A	N/A N/A N/A	1983 1980 1980	Replacement Replaced Replacement	Yes, Code Class 1 Yes, Code Class 1 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



Tests Conducted: Hydrostatic Pneumatic Test Pressure: 1023/7.5 Psig Component Design Pressure:		perating Pressure st Temperature: 1 mperature: 575° F	98.6/69 <sup>0</sup> F	Non
<b>Remarks:</b> 1) See attached NV-1 Code Data Report for MS Nominal operating pressure test on the relief valve inlet joint Pneumatic pressure test on the relief valve body to bonnet jo	Test pressure of 1023	Psig and test tempera		1 1
	• •		· · · i	
	. !			
CERTIFICA	NTE OF COMPLIA	NCE		
We certify that the statements made in this Ofto the rules of the ASME Code, Section XI Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable	vner's Report are	correct and this	replacement <i>confor</i>	ms :
Prepared By Kuldip Singh - Materials And Inspection  Date 82-95	_Signed By	Manager, Materia	Is And Inspection	
			· · · · · · · · · · · · · · · · · · ·	
•				
CERTIFICATE O	F INSERVICE IN	SPECTION		
I, the undersigned, holding a valid commission Vessel Inspectors and the State of Washington (Factory Mutual Engineering Association) of Norwoodescribed in this Owner's Report during the patate to the best of my knowledge and belief, a corrective measures described in this Owner's ASME Code, Section XI By signing this certificate neither the inspector implied, concerning the examinations and confurthermore, neither the inspector nor his eminjury or property damage or a loss of any kind.	and employed by od, Massachusetts eriod 1/17-9 the Owner has per Report in accordant for nor his employed rective measures ployer shall be lia	Arkwright Mutual linave Inspected the S-2 formed examinate ance with the redarder makes any war described in this bie in any manner.	nsurance Company ne components 2-95 an tions and taken quirements of the ranty, expressed to Owner's Report or for any person	d
Cent 7 Jan	Commissions	NB9318 93	184) A N	<del>,</del>
Inspector's Signature			ate, and Endorsemen	s
Date	- I I I I I	0 0 1 1	· · · · · · · · · · · · · · · · · · ·	

PLAN NO. 2-1143 Vindip Emplo 7/6/85

CROSBY	CROSSY VALVE WRENTH	A GAGE COMPANY
	TOR SAFETY AND SAFETY RELIEF T the Provisions of the ASPE Co	
Safe	SATA REPORT Ity and Selety Relief Valves	
le Hamufactured by Crashy Valve &	Name and Address	
Nedel No. RB-65-BP-FN Order N General Zi	e. 175 Contract Dato 4	/24/79 National Board No. N/A
TO MODERAL SEL DEL TORS	CA 95125	Order No. 205-AJ986
3. Owner Washington Public Pos	ver Supply System, Richle	nd, Washington 99352
4. Location of Plant Ranford Re	servation, Richland, Was	hington 99352
3. Valve Identification 1771 f822-	-F0135erial #0. <u>N63790-00-0</u>	0490rawing No. <u>DS-A-63790 Rev.</u> C
Type Safety Relief Sefety, Sefety Relief, Fil Fover Actuated	Orifice Size R Pioc.	Inch Inch Inch
6. Set Pressure (paig) 1175	<u>.                                    </u>	- 575 <sup>0</sup> - F
		Rated Temperature
Stanned Capacity 884,314	A 3 ZOVERPRESSURE	loudown (peig) 22 to 112
Hydroctatic Test (2012) Inlet_		psig (Assembled Valve) psig (Body Only)
Pressure Retaining Places	(Apolicable	to Valves for Closed Systems Only)
Ber Stock & Forgings	Serial No. Identification	Material Specification Including Type or Grade
Body	H93183-35-0068	ASTM A105-71 Gr. II ASME SA105 Gr. II
•		ASTM A105-71 Gr. II ASME SA105 Gr. II
Jonnes	<u> </u>	ASME SALOS CF. II
b. MacCondectorings Maccondectoring Disc Insert	N93185-34-0081	ASHE SA637 Gr. 7
INTERCEDIAL DISC INSTITUTE	173107-54-0002	***
Messle	<u> </u>	ASHT SAIBZ GE. 53.
DiscHolder#X55484-35-0095	*H89714-34-0127	AMS 5662B .
Sering Vashers K62858-35-0031	X62856-35-0087 X62857-35-0052	ASTH A105-71 Gr. II ASME SA105 Gr. II
Adjusting Solt	N93410-33-0056	ASME SA193 Cr. B6
Spindle Point X62873-35-0049		ASTH A564-71 Type 630
c. Spring X62858-35-0031	*N89722-0005	ASTH A304-66 Gr. 4161H .
d. holting		
. Spindle 3all x62873-35-0049	N93213-0049	Stellite #6
Thrust Bearing Lianter	N93409-32-0051	ASMZ SA193 Gr. 86
Bonner Stud (BUS, II		ASSE \$118576- GE 1787
Bonner Stud Nut (J8		ASSE SA194 Gr. 2H
Inlet Stud Not (BV		
Inlet Stud Nut (EW	0602_5±6 (8) 93218-0591 دات مرکز کارکز	ASTH A194-71 Gr. 28
Adjusting Bolt Sucton K63618-33-0037	мяз411-33-0057 Одбо МАЕ	ASHE SA193 GT. Bb

FOR INFORMATION ONLY

SIN N6 3790-00 - 29

Valve originally built against Crosby Order No. N103600, Assembly No. N56000. Valve modification consists of replacement of the Disc Insert, Nozzle, Sonnet 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 removal and new nameplate attached.

Serialization is required unless indicated by an asterisk. Original nameplate removad and new nameplate attached.
CERTIFICATE OF CONFLIANCE
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, Addends No Addends Code Case No. 1567 : 1711 (Date)  Date //-5-PO Signed Crosby Valve 6 Gage Co. by C. O. Code Case No. 1567 : 1711 (N. Certificate Holder)
Our ASSE Certificate of Authorization No. 1878 to use the NV symbol expires September 10, 1981 (Date)
CEXTIFICATION OF RESIGN
Design information on file at Crosby Valve & Cage Company
Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company
43 Kendrick Street, Wrenthem, Hassachusetts 02093
Design specifications certified by Royd P. Brooks  PZ State   Galifornia   Reg. No.   13655
Stress report certified by U.D. Creenlaw
PZ State Masmachusetts Reg. No. 14784
Signature not required - list name only.
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, 1900
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 Flant Components.
by signing this certificate, neither the Inspector nor his employer makes any warrant, empressed 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 commected with this inspection.
Signed Cluster Commissions UASS 1266 (Inspector) (Nat 1. Bd., State, Prov. and No.)
(Nat'l. Bd., State. Prov. and No.)
"Arboright-Secton Hanufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.
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# 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)

Sheet: 1 of 1 Unit: WNP-2

Date: 7/31/95

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 Replaced Replacement	Yes, Code Class 1
MS-RV-3C	Crosby	N63790-00-0052	N/A	N/A	1980		Yes, Code Class 1
MS-RV-3C	Crosby	N63790-00-0124	N/A	N/A	1981		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 plping 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



	: Hydrostatic Pneum Test Pressure: 1023/7.5 Psig Component Design Pressu		al Operating Press Test Temperatur Temperature: 575	e: 198.6/73.5° F	∐ Nor
Nominal operating pre	attached NV-1 Code Data Report for essure test on the relief valve inlet in est on the relief valve body to bonn	oint - Test pressure of	1023 Psig and test tem;		1 I 1 I
	CERTIF	FICATE OF COM	PLIANCE		1 1
We certify that t	the statements made in this	s Owner's Repor	t are correct and th	is replacement confoi	rms !
	he ASME Code, Section XI				
	bol Stamp: Not Applicable	- '			
	uthorization No.: Not Applicab	ole			
Expiration Date	: Not Applicable	1 1			
Prepared By	Rivarp Surs	Signed By	Carl	M. Z.	
K	uldip Singh - Materials And Inspec	ction	Manager, Mat	terials And Inspection	
Date	812195	Date	8/15/95	• · · · · · · · · · · · · · · · · · · ·	
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			<del> </del>	<del>-                                    </del>	
•	CERTIFICAT	E OF INSERVIC	E INSPECTION	e e <b>t</b> i	
	-2				
i, the undersign	ed, holding a valid commis	ssion issued by t	he National Board	of Boller and Press	ure
	ors and the State of Washing				
(Factory Mutual E	ingineering Association) of No	rwood, Massachus	setts <i>have Inspecte</i>	d the components	1 1
described in thi	's Owner's Report during th	he period <u>/- /</u>	7-95 to 8	-2-95 ar	nd
	t of my knowledge and bell				
corrective meas ASME Code, Se	sures described in this Owi	ner's Report in a	ccordance with the	requirements of th	ie :
		actor non ble aim	nlassán mialcha ainse i	romonte benicolos	اسماد
by signing unis	certificate neither the insp	ector nor ms em Leemestive mees	uloyer illakes ally i	varranty, expressed	4 <i>01</i>
	ning the examinations and either the inspector nor his				
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injury or proper	ty damage or a 1955 or any	Killa arising noi	irioi comiected sit	n ans mspecaon	
	07 (/ /	Commiss	ons <u>N3 93/8-</u>	9318W A.N.	7
	actor's Signature	Commissi		I, State, and Endorsemen	nte.
ninsp	Cours Solutions	•	rauonai Board	, cale, ald EROISTING	II.
Dato <u>UU</u>	just 16, 1973	1 1			
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### CROSBY VALVE & GAGE WRENTHAM, MASS

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

		WIX	نظام	OKT		
Safacy	and	Safe	Ey	Relie	E Val	ves

Safety and Safety Relief Valves	
1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick S	r. Wrencham MA 02093
Name and Address	
Model No. HB-65-BP-FN Order No. N9428I Concract Date	4/24/79 National Board No. N/A
General Electric Company, 175 Cur  2. Manufactured For San Jose, CA 95125	Order No. 205-AJ986
Name and Address  3. Owner Washington Public Power Supply System, Richle	and Washington 99357
Name and Address	* * * * * * * * * * * * * * * * * * * *
4. Location of Plant Hanford Reservation, Richland, Was	shington 99352
5. Valve IdentificationMPL #B22-F013 Serial No.N63790-00-0	124 Drawins No. DS-A-63790 Rev. (
	ipe Size - Inler 6 Outlee 10
Safety, Safety Relief, Pilot, Inch Power Accusted	Inch Inch Inch
6. Set Pressure (psig) 1185	575° <sub>F</sub>
, , , , , , , , , , , , , , , , , , , ,	Rated Temperature
Stamped Capacity 891,750 a 3 ZOverpressure 3	Blowdown (psig) 2% to 11%
	975 psig (Assembled Valve)
Pressure Recaining Sieces (Applicable	to Valves for Closed Systems Only;
The second of th	** * * ** ** ** ** ** ** ** ** ** ** **
Serial No.  Bar Stock & Forgings Identification  a. Cascings	Material Specification Including Type or Grade
Body <u>N93183-36-0087</u>	ASTM A105-71 Gr. II
30nnes N93407-36-0098	- ASIM AlOS-71 Gr. II ASME SALOS Gr. II
b. Doctor	SSILL SHIVE ST. LE
Spennence Disc Insert - N93185-37-0156	'ASME SA637 Gr. 718'
Nozzle N93184-33-0072	ASME SAI82 Gr. F316
Disc Holder K55484-31-0005	AMS: 5662B
Spring Washers K62858-36-0081 X62857-36-0130	ASME SALOS GE. II
Adjusting Bolt <u>N93410-33-0072</u>	ASME SAL93 Gr. B6
Spindle Point K62873-37-0136 N89720-43-0157	ASTM A564-71 Type 530 ASNE SA564 Type 530
c. Spring K52858-36-0081 NX2689-0126	ASTM A304-66 Gr. 4161E
d. Soleing	•
Soindle Ball • XCANY XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Stoody #6
Thruse Bearing Adapter M93409-32-0065	ASME SA193 Gr. 36
Bonner Stud (BW19) N93207-1522 thru 1533	4814 871921 G- C-3-21
Bonner Stud Nuc · (J87) N93210-1033 thru 1044	ASNE SA194 Gr. 2H
Inlet Stud (3W21) N93216-1455 thru 1466	1575 51193 Gr. 37
Inlet Stud Nut (3W22) N93218-1389 thru 1400	ASTM A194-71 Gr. 2# ASME SA194 Gr. 2#
Adjusting 301: 3utton 193411-33-0074 X63613-33-0094	Abiti balsi US. 10

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

CER	TIFICATE OF COMPLIANCE	Nes 140-00-0184
We certify that the statements made to the rules of construction of the III, Div. 1, 1971 Edicion,	ASME Code for Nuclear Power	Plant Components, Section
Class	• · · · · · · · · · · · · · · · · · · ·	2-0-1
Date 11-5-80 Signed Cr.	osby Valve & Gage Co. by	R.G. Carsonie
} · · · · · ·	N Certificate Holder)	
Our ASME Certificate of Authorization	n No. 1878	to use the NV
symbol expires September 30, 1983 (Date)		•
•		,
CER	RITIFICATION OF DESIGN	
Design information on file at Crosb	y Valve & Gage Company	
Stress analysis report (Class 1 only)	on file at Crosby Valve	S Gage Company
43 Kendrick Street, Wrentham, Mass	<del>\</del>	
. Design specifications certified by		
PE State California	·······	
Stress report certified by	W.D. Greenlau	
PE State Massachusetts		
ISignature not required - list name or	•	i i i i i i i i i i i i i i i i i i i
	·	
CERTIFIC	CATE OF SHOP INSPECTION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
I, the undersigned, holding a valid of Pressure Vessel Inspectors and the Stand employed by Factory Mutual Systems have inspected the pump, or valve, desand state that to the best of my knowledges of the constructed this pump, or valve, in accomponents.	ere or Province of Massachus:  of Norwood, Massachuseribed in this Data Report Ledge and belief, the N Cert	husects on //3 , 19 8/
By signing this certificate, neither to expressed or implied, concerning the emore, neither the Inspector nor his empersonal injury or property damage or this inspection.	quipment described in this ! ployer shall be liable in a	Data Report.   Further-

Commissions MASS 136 F

(Nat'l. Bd., State, Prov. and No.

Date

Signed

(Inspector)

<sup>\*</sup>Arkright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div-

Date: 6/19/95

Sheet: 1 of 1

Unit: WNP-2



# 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: 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,

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) Bevelod 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



Remarks: See attached NPV-1 and N-2 Code Data Report for the new valve MS-V-20    Code Data Report   Item			1	
We certify that the statements made in this Owner's Report are corrected 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	1 1 1 1			! !
Type Code Symbol Stamp: Not applicable  Certificate Of Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared By	<del>-</del>	· · · · · · · · · · · · · · · · · · ·		····
I, the undersigned, holding a valid commission issued by the Nationa Vessel inspectors and the State of Washington and employed by Arkwri (Factory Mutual Engineering Association) of Norwood, Massachusetts have it described in this Owner's Report during the period 14-6-95 state to the best of my knowledge and belief, the Owner has performe corrective measures described in this Owner's Report in accordance ASME Code, Section XI	and this rep			
I, the undersigned, holding a valid commission issued by the Nationa Vessel inspectors and the State of Washington and employed by Arkwri (Factory Mutual Engineering Association) of Norwood, Massachusetts have it described in this Owner's Report during the period 14-6-95 state to the best of my knowledge and belief, the Owner has performe corrective measures described in this Owner's Report in accordance ASME Code, Section XI	<u> </u>		: : :	
Vessel Inspectors and the State of Washington and employed by Arkwin (Factory Mutual Engineering Association) of Norwood, Massachusetts have It described in this Owner's Report during the period 4–6–95 state to the best of my knowledge and belief, the Owner has performe corrective measures described in this Owner's Report in accordance ASME Code, Section XI	TON		• .	
implied, concerning the examinations and corrective measures describerthermore, neither the inspector nor his employer shall be liable in injury or property damage or a loss of any kind arising from or conne	right Mutual Insignation (% -2 )  ed examination with the requirements (% -2 )  kes any warranibed in this Community manner is sected with this	comp comp comp comp ons an ulreme anty, e. Owner for an s inspe	e Component 95  Id take ents of express 's Rep	pany ts     and   an   f the sed or sont.

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES. 5/6/95

As Required by the Participation of the

<b>,</b>							
	Anchor/Darling Valu	ve Company					
1.	Manufactured by 701 First St., Will	<u>liamsport, PA</u>	17701Orde	r No. R-Z337-1			
2	Washington Public F P.O. Box 968, Richl		stem 0968 Orde	r No244147 /			
۷.	(Name and Address)						
3.	Owner <u>Washington Public Power St</u>	upply System					
4.	Location of Plant WNP-2, North Power	r Plant Loop, R	ichland, WA 9935	2			
5.	Pump or Valve Identification R-Z337-1	1-1 /	<del></del>				
	3"-900#-Globe Valve						
	(Brief description	of service for which equ	upment was designed)				
_							
	(a) Drawing No. W95-24452 R/- P	repared by Anchor	/Darling Valve Com	pany			
	- N/A						
	(b) National Board No. N/A 1717	. 575					
6.	Design Conditions 1717 2160 (Pressure)	psi 100	°F				
	The material design assessment and markets		-/ NE C-d- Carles W. Clas	. 2			
	. The material, design, construction, and workmanship complies with ASME Code Section III. Class2						
<b>"</b> •	and marchine, design, constitution, and workman		AND COSE SECTION III. CIRS				
<b>y</b> '•	Edition 1971 , Addenda Date		AND COSE SECTION III. CIRS				
	and marchine, design, constitution, and workman		AND COSE SECTION III. CIRS				
	Edition 1971 , Addenda Date Mark No.	Material Spec. No.	Case No. N/A  Manufacturer	Remarks			
	Edition 1971 , Addenda Date Mark No.  (a) Castings *Body HT.#V6620 <	dinter 1972,	Case No. N/A	Remarks			
	Edition 1971 , Addenda Date Wark No.  (a) Castings *Body HT.#V6620 < S/N 4	Material Spec. No.	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Mark No.  (a) Castings *Body HT.#V6620 <	Material Spec. No.	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Wark No.  (a) Castings *Body HT.#V6620 < S/N 4	Material Spec. No.	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Wark No.  (a) Castings *Body HT.#V6620 < S/N 4	Material Spec. No.	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Wark No.  (a) Castings *Body HT.#V6620 < S/N 4	Material Spec. No.	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Wark No.  (a) Castings *Body HT.#V6620 < S/N 4	Material Spec. No.	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Wark No.  (a) Castings *Body HT.#V6620 < S/N 4	Material Spec. No.	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Wark No.  (a) Castings *Body HT.#V6620 < S/N 4	Material Spec. No.	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Mark No.  (a) Castings *Body HT.#V6620 < S/N 4 *See N-2 form - Reference /	Material Spec. No.  SA216-WCB	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Mark No.  (a) Castings *Body HT.#V6620 < S/N 4 *See N-2 form - Reference /	Material Spec. No.	Manufacturer  CMI-Quaker Alloy	Remarks			
	Edition 1971 , Addenda Date Mark No.  (a) Castings *Body HT.#V6620 < S/N 4 *See N-2 form - Reference /	Material Spec. No.  SA216-WCB	Manufacturer  CMI-Quaker Alloy:	Remarks			
	Mark No.  (a) Castings  *Body HT.#V6620 < S/N 4  *See N-2 form - Reference /	Material Spec. No.  SA216-WCB  A/DV S.O. P-X26	Case No. N/A  Macufacturer  CMI-Quaker Alloy, 5-1  Copperweld Steel	Remarks			
	Edition 1971 , Addenda Date Mark No.  (a) Castings *Body HT.#V6620 < S/N 4 *See N-2 form - Reference /	Material Spec. No.  SA216-WCB	Manufacturer  CMI-Quaker Alloy:	Remarks			
	Mark No.	Material Spec. No.  SA216-WCB  A/DV S.O. P-X26  SA105 /  A/DV S.O. P-X7	Case No. N/A  Manufacturer  CMI-Quaker Alloy. 5-1  Copperweld Steel  Copperweld Steel	Remarks			
	Edition 1971 , Addenda Date Mark No.  (a) Castings *Body HT.#V6620 < S/N 4 *See N-2 form - Reference /  (b) Forgings Bonnet HT.#A955A < S/N 1  **Disc HT.#A952A / S/N 9  **See N-2 form - Reference Gasket Retaining Ring	Material Spec. No.  SA216-WCB  A/DV S.O. P-X26  SA105 /	Case No. N/A  Manufacturer  CMI-Quaker Alloy, 5-1  Copperweld Steel  Copperweld Steel	Remarks			
	Mark No.	Material Spec. No.  SA216-WCB  A/DV S.O. P-X26  SA105 /  A/DV S.O. P-X7	Case No. N/A  Manufacturer  CMI-Quaker Alloy. 5-1  Copperweld Steel  Copperweld Steel	Remarks			

F. 4/0\$95

<sup>\*</sup>Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8%" 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.

### FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
	N/A			
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`				
(g)	Other Parts			
	N/A			
	<del></del>			
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8. Hydro	static test3250psi	. /		
	C	ERTIFICATION OF I	DESIGN	
<b> </b>	information on file at _Anchor/Darl	ing Valve Co 17	01 Fiwe+!S+! !Will	Jamsnort PA 17701
		ing valve co., 7	01 11130 30., 1111	141.350104 11. 27702
		J. Hurphy	(1) Prof. Eng. State	WA 12542
	analysis report certified by N/A			_
	nature not required. List name only.		(1) Prof. Eng. State_	Reg. No
(1, 5.81	- transcription of the second			
We cert	ify that the statements made in this repo	t ste correct		
		The Control	<b>^</b> .	000
Date	4-27 19.95 Signed A	nchor/Darling Va	1 ve Copy Clery	Larudenslage
		(Manusciules)	•	4
Certific	rate of Authorization No. N1712	_ expires4/15/9	98 .	
<u> </u>				<u></u>
				<del></del>
	CERTI	FICATE OF SHOP IN	SPECTION	•i i i i i
	•			
I, th	e undersigned, holding a valid commiss	ion issued by the Natio	nal Board of Boiler and Pro	essure Vessel Inspectors
and/or t	the State MKRKWKWK of <u>Pennsylva</u> Boston, Mass.	· · · · · · · · · · · · · · · · · · ·	•	
01	2 1 44 11 272 122		ave inspected the equipme	
Report of	structed this equipment in accordance wi	and state that to the	best of my knowledge and	belief, the Manufacturer
By a	signing this certificate, neither the Inst	ector nor his employer :	makes any warranty, expre-	seed or implied, concerns
manner	equipment described in this Data Report for any personal injury or property damag	. Furthermore, neither t	he inspector nor his employ	er shall be liable in any
				- and the same same
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	1170 00	:		
Date	<u>7-23 19 43</u>	1		
		•		
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· /,	Ma he Van	: : 1	Dammara Transact	2200
	(Inspector)	Commissions	Pennsylvania (National Board, State,	
	Charles Young	:	former manual metals	

Printed in U.S.A. (6/72)

This form (E37) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

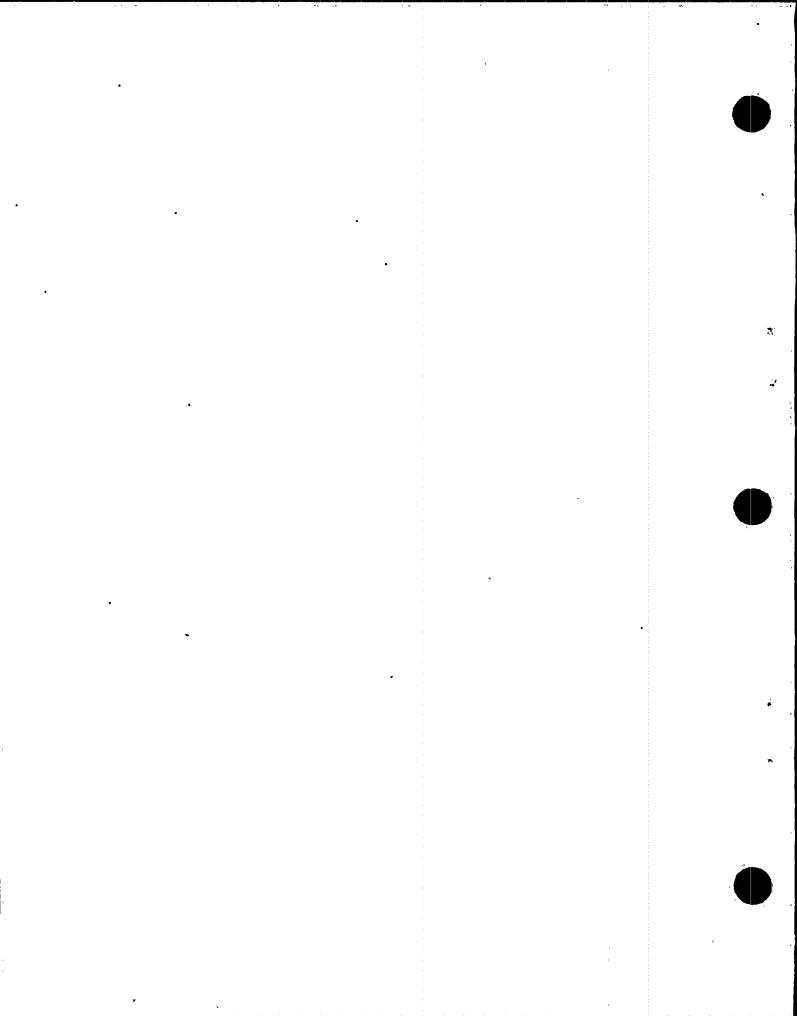
4/28/95

# 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  $\rho$ LBN No. 2-1154

البناد البراد والمساور والمساور والمساور	جرين والأنواس ويوري				
(a) Manufactured by Anchor/Darlin	ng Valve Co 701 f	irst St., Will	iamsport, PA	17701	Swe
(b) Manufactured for Washington Pu	Mame and address of N Certif	System, P.U. Bo	ox 900, RICH	Ialid, WA	
Identification-Certificate Holder's Serial N				'A ·	
(a) Constructed According to Drawing !	NoD13595 R/D	rawing Prepared by_	Anchor/Darli	ng Valve	Compar
(b) Description of Part Inspected	Body (1 pc.) Heat N	o. V6620	SA21	6-WCB	
(a) Description of Part Inspected	1071	11 172		?	
(c) Applicable ASME Coder Section III, I	Edition 19/1, Addesd	a date WIT 72, Co	se No.	.Class	
Remarks: Spare Part for 3	3"-900#-Globe Valve			·	
	Brief description of service (e	r which compensat was	designed)		
A/DV S.O. P-X265	)-[				
	•				
		··			<del></del>
Ve certify that the statements made in t	his report are correct and the	his vessel part or app	errenance as defi	ned in the Co	ode coo-
is to the riles of construction of the AS applicable Design Specification and Str	SME Code Section III.	elbillie of the NOT Co	Hillogra Waldes for	neste An VIII	T Carrie
Holder for appurtenances is responsible	for furnishing a separate De				
uded in the component Design Specifics	ition and Stress Report.)		•		
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e	Anchor/Darling Va Our Commisse Helder 4615/95	alve Co. By Oc	lus G. Si	N1713	agu
tificate of Authorization Expires	4615/95	_ Certificate of Author	orization No	N1713	lagu
tificate of Authorization Expires	Anchor/Darling Value of Design For Apple	_ Certificate of Author	orization No	N1713	Lagu
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CERTIFICATION  CERTIFICATION  Design information on file at  Scress analysis report on file at  Design specifications certified by  I, the undersigned, holding a valid c  end/or the State of MANNAMAN of  Pertial Data Report on  Partial Data Report on  2  2  and belief, the NPT Certificate Holder has	CERTIFICATE OF SHO	Prof. En	er and Pressure V Union Insurpressure vessel of that to the best Code Section III.	Reg. No	tors Dany this
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This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017



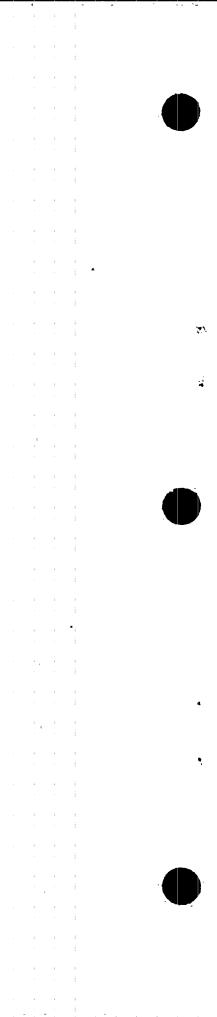
PLAN NO. 2-1124

### 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

Qual Sups

L (a) Manufactured by Anchor/Darling Valve Co.	701 First St., Williamsport, PA 17701
(b) Massiscered for Washington Public Power Su	and address of NFT Cartifician Malein apply System, P.O. Box 968, Richland, WA 9935
2. Identification-Certificate Holder's Serial No. of Part S/N =	M Cortificate Helder for completed sucteor compensation  9  North Ref. No. N/A
	Drawing Prepared by Anchor/Darling Valve Compar
(8) Description of Part Inspected DISC, Real No.	A952A SA105  ddesda dece Wnt 172, Case No Class 2
-3. Remarker Spare Part for 3"-900#-Globe Va	vice for which componed was designed
No Hydro Performed	
•	
Dete //- 8 igned Anchor/Darli  Certificate of Authorization Expires 4/15/95	ng Valve Co. By Delva Loudenslager
CERTIFICATION OF DESIGN FOR	
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. Store Reg. No.
CERTIFICATE OF	SHOP INSPECTION
and/or the State ON PRINCIPACION PENNS I VANIA and e of BOSTON, Mass have Partial Data Report on 9-1-94 have and belief, the NPT Certificate Holder has constructed this part in	Employer makes any warranty, expressed or implied, concern-
Date 1-9 19 24	
Date 1-9, 19 24  Charles You'll poster's Standard Comme	issions Pennsylvania 2392  National Board, State, Province and No.





#### 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

Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)

Sheet: 1 of 1

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 study for the relief valve inlet joint, VT-3 visual examination
  - 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 injet 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
  - 10) Performed VT-1 visual examination on all the studs for the relief valve inlet joint while in place, VT-1 visual examination results
  - 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

- 1) ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda for the plping 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



8	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None Test Pressure: 1023/7.5 Psig Test Temperature: 198.6/72.8° F Component Design Pressure: 1250 Psig Temperature: 575° F
2)	Remarks: 1) See attached NV-1 Code Data Report for MSRV, Serial No N63790-00-0050  Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F  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 Qual Signed By Signed By Manager, Materials And Inspection  Date SISS Date
Į	
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller 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-//-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  Commissions (VB93/8 93/8W) A, N, I
	Inspector's Signature National Board, State, and Endorsements  Date

MS-RV-ID

# CROSBY

# CROSBY VALVE . B GAGE COMPANY

WRENTHAM, MASS

•				
	ORM NV-1 FOR SAFETY AND Sequired by the Provisions			Q.C44D
	DATA REPO		4	
•	Safety and Safety R		n indexation	OWLY
1. Manufactured By Cros	by Valve & Gage Company,	43 Kendrick St.	Wrentham MA 02093	
	Name and Add	ress		•
Model No. HB-65-BP-F	N Order No. N94275 C	ontract Date 4/2	4/79 National Board No	. N/A
Gen	eral Electric Company	. 175 Curtner	Ave.	
<ol><li>Manufactured For San</li></ol>	Jose, CA 95125	Orc	der No. 205-AJ986	<del></del>
	Name and Address			
3. Owner Washington P	ublic Power Supply Sy: Name and Add	stem, Richland ress	, Washington 99352	· · · · · · · · · · · · · · · · · · ·
4. Location of Plant Han	ford Reservation, Ric	hland, Washing	ton 99352	
	**			
5. Valve Identification M	<u>PL #B22-F013</u> Sérial No.]	<u> N63790-00-0050</u>	Drawing No. DS-A-6379	O Rev. C
TypeSafety Relie	f Orific	e Size R Pine	Size Inlet 6 Out	ler 10
Safety, Safety R		Inch	Inch Inch	Inch
Power Actuated				
· 6. Set Pressure (psig)	1175		575 <sup>0</sup>	F
	•		Rated Temperature	
. Stamped Capacity 88	4,314 # 3 ZOver	pressure Blow	down (psig) 2% to 1	12
		975	psig (Assembled Val	
Hydrostatic Test (psi	g) Inlet 23/0	_ Outlet1100	osig (Body Only)	
Pressure Retaining Piece:	•	(Wbbilicapie co	Valves for Closed Syst	ems Only)
•	Serial No.		Managara Constitution	•
Bar Stock & Forgin		on .	Material Specificati Including Type or Gra	
ತ. ಕೊರದಸ್ಥಾರ	<b>0</b> -		• •	•
Body	<u> </u>	0069	ASTM A105-71 Gr 11	T
· Bonner	V02407 25 (	0022	ASTM A105-71 Gr. I	I
- ···· <del></del>	<u> </u>		ASME_SA105 Gr. II	
b. Bankkamhdakkamhasak			•	
Spapershade Disc In	sert <u>N93185-34-</u> (	0082	ASME SA637 Gr. 718	•
Nozzle	_ · N93184-33-0	0054	ASME SA182 Gr. F31	6
n/	25 2027			<del></del>
Disc Holder*K55484-			AMS 5662B	<del></del>
Spring Washers K62858	K62856-35-0 -35-00 <b>3</b> 2 <u>K62857-35-</u> 0	0053	ASTM A105-71 Gr. I ASME SA105 Gr. II	I
•				
Adjusting Bolt	<u> </u>	0057	ASME SA193 Gr. B6 ASTM A564-71 Type	<del>630</del>
Spindle Point K62873	-35-0050_ *N89720-34-0	0066	ASME SA564 Type 63	
c. Spring K62858-35-00	32 *N89722-0008		ASTM A304-66 Gr. 4	
			2 X O O 3 8	
d. Bolting Spindle Ball		<del></del>		0110
e :ಆಯಾಲಿಸಿದಾಸ K62873-			Stellite #6	<del></del>
Thrust Bearing Ada	<del></del>		ASME SA193 Gr. B6	<del>-,</del>
	(BW5, X17) N93207-0597		ASTM A193-71 Gr. B7	1
Bonnet Stud Nut	(J87) N93210-0817	7 thru 0828	ASME SA194 Gr. 2H	
Inlet Stud	(BW6) N93216-0599	thru 0610	ASTM A193-71 Gr. B7	7
	A .		ASTM A194-71 Gr. 2	

Adjusting Bolt Button K63618-33-0058

Inlet Stud Nut

(3

N93411-33-0058

(EW8) N93218-0603 thru 0614

ASME SA193 Gr. B6

approximate the contract of th

mcdification 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.

4ED_	NI63740-00-60.50
SEE SEE	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 (Date)
	Date 11-5-80 Signed Crosby Valve & Gage Co. by 1. G. Cadavante
	Date //-5-80 Signed Crosby Valve & Gage Co. by / ( . 4 . / a . www.)  (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
- 1	43 Kendrick Street, Wrentham, Massachusetts 02093
	Design specifications certified by Boyd P. Brooks
	PE State California Reg. No. 13655
参	Stress report certified by W. D. Greenlaw
_	PE State Massachusetts Reg. No.   14784
	Signature not required - list name only.
h	•
ſ	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, 19 30 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.

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

Signed

(Inspector)



# 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

#### OTES.

- 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



Tests Conducted: Hydrostatic Pneumatic X  Test Pressure: 1023/7.5 Psig  Component Design Pressure: 1250 Ps	Nominal Operating Pressure X Other Nor Test Temperature: 198.6/71.2° F
Remarks: 1) Nominal operating pressure test on the relief valve in Pneumatic pressure test on the relief valve body to bonnet joint - Test	let joint - Test pressure of 1023 Psig and test temperature of 198.6 <sup>0</sup> t pressure of 7.5 Psig and test temperature of 71.2 <sup>0</sup> F
	$(\mathbf{r}_{i},\mathbf{r}_{i}) \in \mathbf{r}_{i}$
• •	
CERTIFICATE O	F COMPLIANCE
We certify that the statements made in this Owner's to the rules of the ASME Code, Section XI Type Code Symbol Stamp: Not Applicable	Report are correct and this replacement conforms
Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable	
	ned By
Kuldip Singh - Materials And Inspection	Manager, Materials And Inspection
Date 8 2 15 Date	0/75/55
•	· · · i
CERTIFICATE OF INS	ERVICE INSPECTION
I, the undersigned, holding a valid commission issue Vessel inspectors and the State of Washington and electory Mutual Engineering Association) of Norwood, Madescribed in this Owner's Report during the period state to the best of my knowledge and belief, the Owner's Report of this Owner's Report Corrective measures described in this Owner's Report ASME Code, Section XI	mployed by Arkwright Mutual Insurance Company ssachusetts have inspected the components 4-10-95 to 8-1-95 and when has performed examinations and taken
By signing this certificate neither the inspector nor implied, concerning the examinations and corrective Furthermore, neither the inspector nor his employed injury or property damage or a loss of any kind arising the control of th	e measures described in this Owner's Report.  r shall be liable in any manner for any personal
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	mmissions NB9318 9318W A.N. I
Inspector's Signature  Date August 16, 1995	National Board, State, and Endorsements



# 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: 6/19/95 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: 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

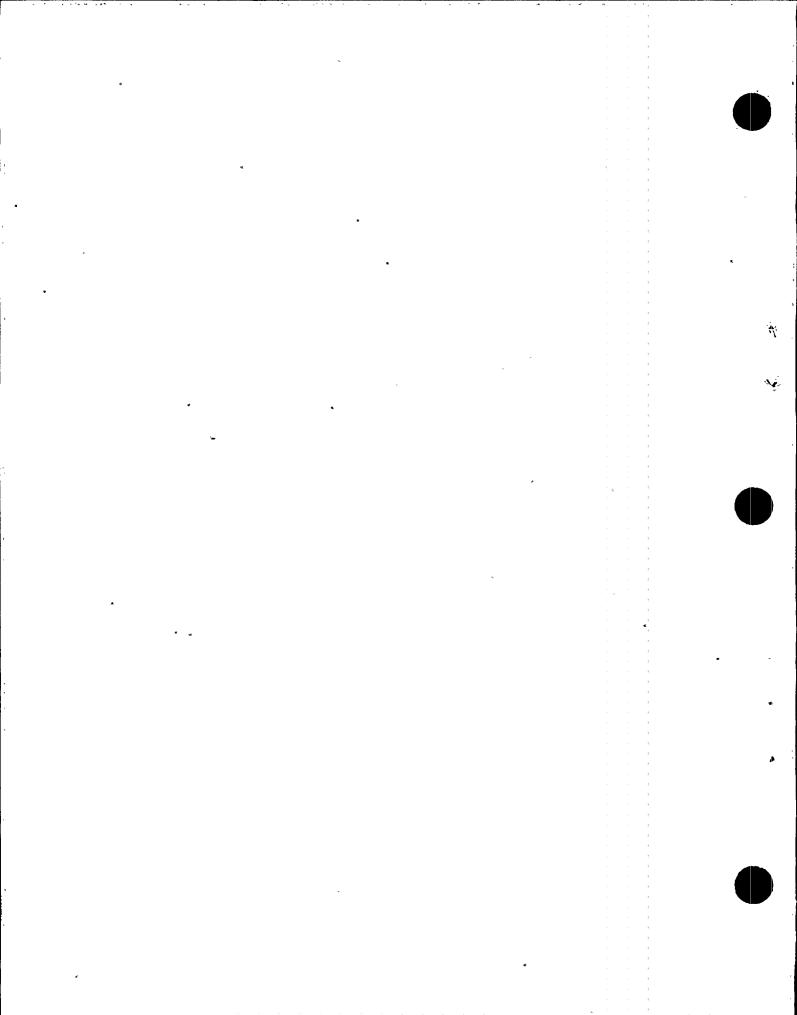
Core Location	Core Location	Core Location	<u>Coro Location</u>	<u>Core Location</u>	Core Location
08-41	08-17	24-17	40-49	48-49	48-17
08-33	16-33	24-09	40-33	48-33	32-09



resis Conducte	d: Hydrostatic Pneu Test Pressure: Pskj Component Design Pres		minai Operating Test Temp Temperat	oerature: ° F	Other X
Remarks: See at	tached N-2 Code Data Reports for	r the following new i	ocal Power Range	Monitoring (LPR)	d) incore assemblies
Core Location	LPRM Serial No	Core Location	LPRM Sorial N	kg.	: : :
08-41	M3803 (	08-33	M3349		
08-17	M3346	16-33	M3792		
24-17	M3800 -	24-09	9450434		
40-49	M3793	40-33	M3799		4
48-49	M3347	48-33	M3791		i
48-17	M5263	32-09	9450432		
	CERT	TFICATE OF C	OMPLIANCE	·	1 1 1 1
We certify that	the statements made in th	his Owner's Re	port are correct	and this repla	cement <i>conforms</i>
	the ASME Code, Section X	a j			:
Type Code Syl	mbol Stamp: Not applicable			1	İ
	A <i>uthorization No.:</i> Not applica	able		1 ! ! !	!
Expiration Dat				1 1 1 1	
•	<i>y</i> - 0 -				
Prepared By_	Kayout Sills	Signed	Ru /	m.	:
	Kuldip Singh - Materials And Insp			ger, Materials Ar	vd Ingraction
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Date	6/20195	Date	6/211	75	<u> </u>
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				45.5.5	•
	CERTIFICA	TE OF INSER	/ICE INSPECT	ON	1 1 1 1
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	ned, holding a valid comm				
Vessel Inspect	ors and the State of Washi	ngton and empl	oyed by Arkwrig	ht Mutual Insur	ance Company
	Engineering Association) of N				
· Iractory mutual	is Owner's Report during	the period 4	-10-95	to 6-20	-95 and
· (ractory mutual · described in th					
described in th	et of my knowledge and he		IIdə Dellullildu		
described in the state to the bea	st of my knowledge and be			. PA P . A P	
described in the state to the best corrective mean	sures described in this Ov	wner's Report I	n accordance w		ements of the
described in the state to the bea	sures described in this Ov		n accordance w		rements of the
described in the state to the best corrective mea ASME Code, S	sures described in this Overtion XI	wner's Report l	n accordance w		I
described in the state to the best corrective mea ASME Code, S By signing this	sures described in this Overtion XI certificate neither the ins	wner's Report i pector nor his	n accordance w employer make	s any warrant	iy, expressed or
described in the state to the best corrective mea ASME Code, S By signing this implied, conce	sures described in this Ovection XI section XI secrificate neither the ins ming the examinations an	wner's Report i pector nor his nd corrective m	n accordance w employer make easures describ	s any warrant ed in this Ow	iy, expressed or mer's Report.
described in the state to the best corrective mean ASME Code, SBy signing this implied, concerturthermore, means to the state of the st	sures described in this Overtion XI section XI secrificate neither the insiming the examinations and the inspector nor his	wner's Report i pector nor his ad corrective m is employer sh	n accordance w employer make easures describ all be liable in a	s any warrant ped in this Ow ny manner fo	iy, expressed or mer's Report. r any personal
described in the state to the best corrective mean ASME Code, SBy signing this implied, concerturthermore, means to the state of the st	sures described in this Ovection XI section XI secrificate neither the ins ming the examinations an	wner's Report i pector nor his ad corrective m is employer sh	n accordance w employer make easures describ all be liable in a	s any warrant ped in this Ow ny manner fo	iy, expressed or mer's Report. r any personal
described in the state to the best corrective mean ASME Code, SBy signing this implied, concerturthermore, means to the state of the st	sures described in this Overtion XI certificate neither the instraint the examinations and the inspector nor highly damage or a loss of an	wner's Report in spector nor his and corrective m is employer show kind arising in	n accordance we employer make easures describ all be liable in a from or connec	s any warrant ped in this Ow ny manner fo ted with this i	iy, expressed or mer's Report. r any personal
described in the state to the best corrective measured ASME Code, S. By signing this implied, concertification, injury or properties.	sures described in this Overtion XI section XI secrificate neither the instraining the examinations and seither the inspector nor hierty damage or a loss of an	wner's Report in spector nor his and corrective m is employer show kind arising in	n accordance we employer make easures describ all be liable in a from or connec essions <u>NB 9</u>	s any warrant ned in this Ow ny manner fo ted with this i 3/8 w	ly, expressed or mer's Report. r any personal nspection A, N, I
described in the state to the best corrective measured ASME Code, SBy signing this implied, concernity or properties.	sures described in this Overtion XI certificate neither the instraint the examinations and the inspector nor highly damage or a loss of an	wner's Report in spector nor his and corrective m is employer show kind arising in	n accordance we employer make easures describ all be liable in a from or connec essions <u>NB 9</u>	s any warrant ned in this Ow ny manner fo ted with this i 3/8 w	iy, expressed or mer's Report. r any personal

# FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES Ruch Sugl

	As required by the Provisions of the ASME Code Rules		
1.	(a) Manufactured by GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44087		
	(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		
,	SUMMER  (c) Applicable ASME Code: Section III, Edition 1977, Addenda date 1977, Case No. N-176-1 Class 1		
<b>∤</b> :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		
· ·	•		
•			
M. 19	the applicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenance nufacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included the component Design Specification and Stress Report.)    12-22- 19 94   Signed   GE REUTER-STOKES   By Robert A. Chandler   Guanties		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		
1	Design specifications certified by SURINDER L. KAMPANI Prof. Eng. State OH Reg. NoF-034113		
<u>ا</u> ۔	Stress analysis report certified by DOUGLAS E. BACSO Prof. Eng. State OH Reg. NoE-044071		
	CERTIFICATE OF SHOP INSPECTION		
0 2 4	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.  HARTFORD, CT have inspected the part of a pressure vessel described in this danufacturer's Partial Data Report on 12 19 4, 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 thall 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.  Commission 187650  Inspector's Signature  National Beard, State, Prevince and No.		



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

# As required by the Provisions of the ASME Code Rules

8_	
1.	(a) Manufactured by GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44087
•	(b) Manufactured for WNP-2 - WASHINGTON PUBLIC POWER SUPPLY SYSTEM, RICHLAND, WA 99352
	(Name and address of Manufacturer of completed nucleur component)
2.	Ideatification-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
	SUMMER  (c) Applicable ASME Code: Section III, Edition 1977, Addenda date 1977, Case No. N/A Class 1
3.	Remarks: DESIGN: PRESSURE 1250 PSIG, DESIGN TEMPERATURE 575°F
	HYDROSTATIC TEST PRESSURE: 1925 PSIG
•	
	•
	. <del> </del>
for	We certify that the statements made in this report are correct and this vessel part or appeirtenance as defined in the Code con- ms to the rules of construction of the ASME Code Section III.
(TA	ne applicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenance nufacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included
is	the component Design Specification and Stress Report.)
<b>L</b> :	10/18 19 9 3 Signed GE REUTER-STOKES By James 1. Holmes
<b>,</b>	(Manufacturer) QUALITY ASSURANCE
Ce	rtificate of Authorization Expires SEPTEMBER 16, 1994 Certificate of Authorization No. N-2703
_	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
Ì	· · · · · · · · · · · · · · · · · · ·
١.	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.
	and/or the State or Province of UHIU and employed by H.S.B.I. & I. CO.  HARTFORD, CT have inspected the past of a pressure vessel described in this
1	Magnifacturer's Partial Data Report on 10-18 19.73 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, seither 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.
1	·
١.	10-18 92
	Date 10-18 19 93
·	Date 10-18 19 93  Sacal C. Schall Commissions NB7920 AN DHID PANIC 2454-N  Inspector's Signature Commissions NB7920 AN DHID PANIC 2454-N  Hotienal Board, State, Province and No.

Johnda 3

## FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES As required by the Provisions of the ASME Code Rules

i.	(a) Manufactured by GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44087
•	(Name and address of Monufesturer of part)
	(b) Manufactured for WNP-2 - WASHINGTON PUBLIC POWER SUPPLY SYSTEM, RICHLAND, WA 99352
	(Name and address of Majoulaiturer of completed miclear component)
2.	Idestification-Manufacturer's Serial No. of Part SEE BELOW Nat'l B4. No. N/A
	(a) Constructed According to Drawing No. RS-E5-1260-201 Drawing Prepared by GE REUTER-STOKES
	4-1 agenticia sections as a second section and section
	POWER PANCE DETECTOR DRY THE
	(b) Description of Part Inspected POWER RANGE DETECTOR DRY TUBE
	SUMMER
	(c) Applicable ASME Code: Section III, Edition 1977, Addenda date 1977, Case Na. N/A Class 1
٦.	Remarks: DESIGN: PRESSURE 1250 PSIG. DESIGN TEMPERATURE 575°F
~•	(Brief description of sorries in which component was designed)
	HYDROSTATIC TEST PRESSURE: 1925 PSIG
•	

SERIAL NUMBERS: M3341 thru M3355 M3791 thru M3801 M3803, M3804, M3805 M5263



QUALITY ASSURANCE

NB7920-OHIO-PAWC2454-N

Date: 6/19/95

Sheet: 1 of 1

Unit: WNP-2



# 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: 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



Tes	vdrostatic Pneumati it Pressure: 57 Psig mponent Design Pressure	T   T	Operating Pressure  est Temperature: 56° F  emperature: 150° F	X Other No
	CERTIFIC	CATE OF COMPL	IANCE	1 1 1
to the rules of the A Type Code Symbol Certificate Of Author Expiration Date: No Prepared By	statements made in this (ASME Code, Section XI I Stamp: Not applicable orization No.: Not applicable t Applicable  Singh - Materials And Inspection G 20 98	Signed By	Manager, Materials An	
Vessel Inspectors of (Factory Mutual Engine described in this Of state to the best of corrective measure ASME Code, Section By signing this certification.	holding a valid commiss and the State of Washingto neering Association) of Norw wner's Report during the my knowledge and beliet as described in this Owne	on and employed be wood, Massachusette period 4-10- f, the Owner has per's Report in accordance to ror his employector nor his employectorective measure	National Board of Boll by Arkwright Mutual Insur- is have Inspected the c -95 to 6-21 performed examination ordance with the requir- layer makes any warran- es described in this Over	rance Company components - 95 and s and taken rements of the ty, expressed or vner's Report.
Injury or property	damage or a lose of any k	kind arising from o	s <u>IVB 9318</u> National Board, State,	inspection  A, N, I

Date: 6/19/95

Sheet: 1 of 1

Unit: WNP-2



# 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 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,

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
1				• ,			

- 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



Tests Condu	cted: Hydrostatic Pneun Test Pressure: 38.8 Psig Component Design Press		Test	rating Pro Tempera perature:	ture: 82º		Other	X	LLF
. Remarks: So EPN No CSP-V-1 CSP-V-2	oe attached NFV-1 Code Data Reports Serial No 93-2544-01 (N)-01 93-2544-01 (N)-02	for the following nev	/ valves		4 4			!	!
	CERTI	FICATE OF CO	MPLIAN	ICE		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1	
to the rules Type Code Certificate	that the statements made in the of the ASME Code, Section X Symbol Stamp: Not applicable Of Authorization No.: Not applicate: Not Applicable  Kuldip Singh - Materials And Inso	7 ble Signed B		On	d this rep			òrms	i
Date	56/30Z	Date		6/21/	155				1 1
							!		
Vessel Insp (Factory Mut	rsigned, holding a valid commi pectors and the State of Washin tual Engineering Association) of N	ngton <i>and emplo</i> lorwood, Massach	y the Nat yed by A nusetts h	ilonal Boa ukwright M ave Inspe	erd of Bo lutual Ins cted the	urance <i>comp</i>	Compa onents	any s	
state to the corrective in ASME Code By signing implied, con Furthermon	In this Owner's Report during to best of my knowledge and be measures described in this Owner, Section XI this certificate neither the inspector nor his operty damage or a loss of an operty damage or a loss of an	illef, the Owner i vner's Report in pector nor his e d corrective me is employer sha	has perfe accorda mployer asures d Il be liab	ormed ex nince with makes a lescribed le in any l	aminatio the requ ny warra in this C manner	ns and lireme nty, ex Dwner' for any	d taker nts of kpress s Repo y perso	n the ed or ort.	
Date 6	inspector's Signature 5-22-95	Commis	sions <u>/</u>	<i>18 9318</i> National B	B W oard, State	, and Er	7 N idorsem	Z_ ients	1

### CSP-V-1

PLAN NO. 2-1163 Quaip Engl.

Pg. 1 of 2

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

6/15195

1. Manufactured and certif	fled by C&S Valve	e Co., Nuclear Products	Div.; 40 Chestnut A	ve.; Westmont, IL 60559
70 1112112121212121212121		Iname and addres	s of N Certificate Holder)	
2. Menufactured for Wash	<u>ington Public P</u>	ower Supply; P.O. BOX 96	8: Richland, Washin	raton 99352-0969
		(name and address	•	
3. Location of Installation	WNP-2 OPS WHS C	Complex, WHS #1; North Po	<u>wer Plant Loop; Ric</u>	hland, WA 99352
		(name and	l address)	•
4. Model No., Series No., o	or Type Purge Ven	t Drawing 93-2544-0	01(N) Rev. A	CRNN/A
5. ASME Code, Section III	, Division 1:	1989 No Addenda		N/A
		(squeues as)	•-•	(Code Case no.)
6. Pump or valveValv	e Nomi	nal-inlet size 3011	Outlet size _30"	
•		(in.)		(in.)
7. Material: Body _SA 2	16 GR. WOB Bonr	net N/A Disk .	SA 216 GR. WCB. BO	Iting SFE BACK SIDE OF PAG
(a)	(b)	(e)	(d)	(e)
(a) Cert.	(b) Nat'l	(c) Body	(d) Bonnet	(e) Disk
		* '*	• •	
Cert.	Nat'l	Body	Bonnet	Disk
Cert. Holder's Seriel No.	Nat'l Board No.	Body Serial No.	Bonnet Seriel No.	Disk Serial No.
Cert. Holder's	Nat'l Board	Body Serial No. HEAT: 2112994	Bonnet Serial	Disk Serial No. HEAT: 2113094
Cert. Holder's Seriel No.	Nat'l Board No.	Body Serial No.	Bonnet Seriel No.	Disk Serial No.
Cert. Holder's Seriel No.	Nat'l Board No.	Body Serial No. HEAT: 2112994	Bonnet Seriel No.	Disk Serial No. HEAT: 2113094
Cert. Holder's Seriel No.	Nat'l Board No.	Body Serial No. HEAT: 2112994	Bonnet Seriel No.	Disk Serial No. HEAT: 2113094
Cert. Holder's Seriel No.	Nat'l Board No.	Body Serial No. HEAT: 2112994	Bonnet Seriel No.	Disk Serial No. HEAT: 2113094
Cert. Holder's Seriel No.	Nat'l Board No.	Body Serial No. HEAT: 2112994	Bonnet Seriel No.	Disk Serial No. HEAT: 2113094

<sup>\*</sup>Supplemental information in form of lists, eketches, 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.

# FORM NPV-1 (Back - Pg. 2 of \_2\_)

							Certificate	Holder's S	edal No. ≾	2-(2)-(1)	11/201
8.	Design cor	nditions	218	pai	340	0	or valve	pressure cli	188	150.	[
٠,	,		(pressure)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(temperature)		1 1	1 1 1			·
8.	Cold worki	ing pressure _	285	pal at	100°F						
10.	Hydroated	a test	450 pa	i. Disk differ	ential test pro	ssure 🚐		45		· 	_ psi
11.	Remarks: _	COVER PLAT	E	MATERIAL:	SA 516 GR	. 70_	HEAT CO	DE: ZSE			
		HEX HEAD (	AP SCREW -	MATERIAL:	SA 193 GR	<b>.</b> 87	TRACE C	DDE: 05			
		GLAND -		MATERIAL:	SA 516 GR	. 70	HEAT CO	E: ZSE	· · · · · · · · · · · · · · · · · · ·		
		STUD -	* _	MATERIAL:	SA 193 GR	_ BSM_	HEAT CO	DE: KB			
		HEX NUT -		MATERIAL:	SA 194 GR	. 8M_	HEAT CO	OE: E7_			
	-	PIPE PLUG	-	MATERIAL:	SA 479 TY	PE 316	HEAT CO	OE: ULE			<u> </u>
				CERTIF	ICATION OF	NDIABION			· i i		
Da	ian Snacii	ication certific	JAC	K R. COLE	· · · · · · · · · · · · · · · · · · ·	55	WA	SHINGTON	Dec so	206563	
1		certified by .		N/A		_ 7.6. i	2000	SHINGTON	Dag as	***	
0.0	ign Report	certified by				- P.G.	31816		Aug. no		
										i	
				CERTIFIC	CATE OF CON	PLIANC	E				
We	certify the	t the stateme	nts made in thi	s reción: Bre co	rrect and that	this oun	na ar valva	conforms t	o thà fullas	för construc	tion
of t	he ASME	Code, Section	III, Division 1.				1 1 1	1 1 1		1	
NC	ertificate d	of Authorization	n No	N-272	23	·	·	xpirss	5/20/	95	
			. C&S Valve			. 514					
Dat	0 2/24	Man CT	e res Agins	M Cartiforna L	dr PTOOUCT	z nià e	igned	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			<b>─</b>
			·	Secretaries				TAMOSONAS	io tehvasauti		
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1: *	ha undarak	aned, holding	a valid comm	issian issued	by the Netta	nai Ross	d of Rolle	and Drass	re Vassat	Inspectors	and
		rovince of									
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atri	oted this p	oump, or valve	, in accordance								
<b>D.</b> .	alanina ett	a aamiliaaa	nalehas eha Ian	n # n0 m n		* Fac	tory Mit	ual Engir	eering A	ssociatio	
			neither the ins : Date Report.					1 11 1	1 11		
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Dat	0 3-24-	Signed .	(Authorized	(hapector)	Commissio	ha <u>NB</u>	/ 065 Y . !. Bd. (incl.	endoraement	1) and state	pr prav. and n	<u> </u>

(1) For manually operated valves only.

E1.60 mpses 3/24/45

CSP-V-2

PLAN No. 2-1163 Quaip Surph

# 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 <u>2</u>

1. Manufactured and ce	rtified by <u>C&amp;S Valve</u>	Co., Nuclear Products	Div.; 40 Chestnut A	lve.; Westmont, IL 60559
		enbba bna eman)	ss of N Certificate Holder)	
2. Manufactured for Wa	<u>shington Public Po</u>	wer Supply; P.O. BOX 9		ngton 99352-0969
	100 0 000 110 0	Iname and address		ablack IIA COOFO
3. Location of installatio	n WAY-2 CHS WHS CO	mplex, WHS #1; North P	ower Plant Loop; Kid	chiand, WA 99352
	Dames North			CRN N/A
4. Model No., Series No.	., or Type Fulge Yell	Drawing 93-2544-(	OTTIVE RevA	CRNNA
5. ASME Code, Section		989 No Addend	a <sup>'</sup> 2	N/A -
5. ASME COOF, SECTION		(addenda de		(Code Case no.)
6. Pump or valve	lve Nomina	al injet size 3011	Outlet size 30"	
		(in.)		(in.)
7. Material: Body SA	216 GR. WCB Bonns	tN/A Disk	SA 216 GR. WCB BO	olting SEE BACK SIDE OF PAGE
		•		
(a)	(b)	(c)	(d)	(e)
Cart.	Natil	Body	Bonnet	Diak
Holder's	Board	Serial	Serial	Serial
Serial No.	No.	No.	. No.	No.
93-2544-01(N)-02	N/A	HEAT: 2112994	N/A	HFAT: 2113094
		SERIAL: N20646-2		SERIAL: N20647-2
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<sup>\*</sup> Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is  $8\% \times 11$ , (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.



# FORM NPV-1 (Back - Pg. 2 of 2\_)

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8. Design conditions 218 psi 340 F or valve pressure class 150  (pressure) (temperature)  9. Cold working pressure 235 pei 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: QS GLAND - MATERIAL: SA 516 GR. 70 HEAT CODE: ZSE STUD - MATERIAL: SA 193 GR. B9M HEAT CODE: KS HEX NUT - MATERIAL: SA 194 GR. BM HEAT CODE: KS HEX NUT - MATERIAL: SA 194 GR. BM HEAT CODE: ULE  CERTIFICATION OF DESIGN  Design Specification certified by JACK R. COLE P.E. State WASHINGTON Reg. no. 206563				Certificate Ho	ider's Serial No	93-2544-01(N)-02
(pressure) (temperature)  9. Cold working pressure 235 psi at 100°F  10. Hydrostetic test 450 psi. Disk differential test pressure 45 psi at 100°F  11. Remarks: COVER PLATE — MATERIAL: SA 516 GR. 70 HEAT CODE: ZSE HEX HEAD CAP SCREW — MATERIAL: SA 193 GR. 87 TRACE CODE: C5 GAND — MATERIAL: SA 516 GR. 70 HEAT CODE: ZSE STUD — MATERIAL: SA 193 GR. 89M HEAT CODE: K8 HEX NUT — MATERIAL: SA 193 GR. 89M HEAT CODE: K8 HEX NUT — MATERIAL: SA 194 GR. 8M HEAT CODE: ULE  CERTIFICATION OF DESIGN  Design Specification certified by JACK R. COLE P.E. State WASHINGTON Reg. no. 206563	Onat-a anadista-a	218	340	1 1 1 1 1		1
10. Hydrostatic test	. Design conditions(p)	ressure)	(temperature)			\ \
11. Remarks: COVER PLATE - MATERIAL: SA 516 GR., 70 HEAT CODE: ZSE  HEX HEAD CAP SCREW - MATERIAL: SA 193 GR. B7 TRACE CODE: Q5  GLAND - MATERIAL: SA 516 GR., 70 HEAT CODE: ZSE  STUD - MATERIAL: SA 193 GR., 85M HEAT CODE: KB  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	. Cold working pressure	235 pel at	100°F			
HEX HEAD CAP SCREW - MATERIAL: SA 193 GR. B7 TRACE CODE: C6 GLAND - MATERIAL: SA 516 GR. 70 HEAT CODE: ZSE STUD - MATERIAL: SA 193 GR. BSM 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	. Hydrostatic test	450psi. Disk diffei	rential test pressur	· •	45	pai
HEX HEAD CAP SCREW - MATERIAL: SA 193 GR. 87 TRACE CODE: Q5  GLAND - MATERIAL: SA 516 GR. 70 HEAT CODE: ZSE  STUD - MATERIAL: SA 193 GR. 85M 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	Remarks: COVER PLATE -	MATERIAL:	SA 516 GR. 7	O HEAT CODE:	ZSE	
STUD - MATERIAL: SA 193 GR. 85M 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						
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	GLAND -			O HEAT CODE:	كالتدارخ والمراجع والمراجع فأنشأ بربي والتك	
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	SND -			EM HEAT CODE:	K8	
CERTIFICATION OF DESIGN  Design Specification certified by JACK R. COLE P.E. State WASHINGTON Reg. no. 206563					كينار إن الأوالي ويستوال والمستوال والمستوال	
Design Specification certified by JACK R. COLE P.E. State WASHINGTON Reg. no. 206563	PIPE PLUG -	MATERIAL:	SA 479 TYPE	316 HEAT CODE:	ULE	
1//		CERTI	FICATION OF DES	IGN	<del></del>	
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Design Report Cartified by	esign Report certified by			E. State	Reg. no	
CERTIFICATE OF COMPLIANCE		CERTIFI	CATE OF COMPLI	ANCE	·	
	la an aldurah maharanan ara-					
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.			ottect and that this	s britth or Agras cou	roms to the rule	s for construction :
N Certificate of Authorization No. N-2723 Expires 6/20/95		1.41404	23	Fynir	6/2	0/95
	•			•		•
Date 3/24/95 Name C&S Valve Co. NKilear Products Div signed Wife - 10 CD	ate 3/24/95 Name C	&S Valve Co. Nucle	ear Products_D	iv signed _ Luz	<u> </u>	
(N Cartificate Holder) (authorized representative)	<u> </u>	(N Gertificate H	olderi	· · · · · · · · · · · · · · · · · · ·	enthorized represer	nteuve)
			•	-		
And the second of the second o						
CERTIFICATE OF INSPECTION		CERTIF	icate of inspec	TION	<del></del>	1 1 1
i, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by Allendale Mitual Insurance Co.			by the National	Board of Boller and	d Pressure Vess ndalo Mitual	el Inspectors and
of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on	Macach					1 1
and state that to the best of my knowledge and ballaf, the Certificate Holder has con-						
structed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.			•			
* Factory Mutual Engineering Association	u almalam ship anmilinga . walsh					
By signing this certificate, rigither 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 ilable in any manner for		·	· ·	-		
any personal injury or property damage or a loss of any kind adding from or connected with this inspection.	• •		•	· · · · · · · ·		me any manual tot
Date 3-74-95 Signed Charles Macobs Commissions NB/654 N 161469 OHIO (Authorized Dispector) (Nat'l. 8d. (Incl. endorsements) and state or prov. and no.)	ate 3-74-95 Slaned CK	arlis macolo	Commissions	UB/0654 N	141469	OHO
(AuthorizedUspector) [Net'l. Ed. (Incl. endorsements) and state or prov. and no.)		(Authorizadissector)		(Nat'l. Ed. (Incl. endo	rements) and stat	e or prov. and no.i

(1) For manually operated valves only.

Elbuppes 3/24/05



#### 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

Sheet: 1 of 1

Address: 3000 George Washington Way, Richland, Washington, 99352 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



Tests Co	nducted: Hydrostatic Pne Test Pressure: 38.8 Psig Component Design Pre		al Operating Pressure Test Temperature: Am Temperature: 275° F		Other	×	LLRI
. Remark	: None				:		
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		<del></del>	<u> </u>	1 1			<del></del> 1
	CER	TIFICATE OF COM	PLIANCE		: 1	1	
	fy that the statements made in		are correct and this rep	ameoak	nt <i>con</i>	forms	<b>3</b> 1 1
	iles of the ASME Code, Section	XI					
	de Symbol Stamp: Not applicable	••					
	i <i>te Of Authorization No.:</i> Not appli o <i>n Date:</i> Not Applicable	KERDHO					
Expirat	On Date: Not Applicable	1 1					
Prepare	18, 10th 201	Signed By					
Propare	Kuldip Singh - Materials And In	voction	Manager, Materials	And Ins	nection		•' 'I'
<b> </b>		-	/ / -	na maq	,		ļ
Date_	20/20	Date	Ce/21/95				-
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Î	CERTIFIC	ATE OF INSERVICE	E INSPECTION			:	1
I, the u	dersigned, holding a valid com	mission issued by ti	he National Board of Bo	oller ar	d Pre	ssure	.
	nspectors and the State of Wasi						1 1
(Factory	Mutual Engineering Association) of	Norwood, Massachus	etts have inspected the	comp	onent	s :	1 1
	ed in this Owner's Report during					and	1 1
	the best of my knowledge and i					n	
	ve measures described in this (						1 1
	ode, Section XI		•		,		
	ng this certificate neither the in	spector nor his emi	olover makes anv warra	ntv. e	xpress	ed o	- 1
	concerning the examinations a						1 1
	nore, neither the inspector nor						1 1
	property damage or a loss of a						1
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	all of lone	Commissi	ons <u>IVB 9318 W</u>		A. N	I	1
	Inspector's Signature		National Board, State	, and E	ndorsen	nents	- j
Date	6-22-95				1		ľ
		1 1					
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Date: 6/19/95

Sheet: 1 of 1

Unit: WNP-2



# 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 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 Casa: 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



	Tests Condu	Test Pressure: 38.9 Palg Component Design Pres		il Operating Pres Test Temperati Temperature: 3	ure: Ambieri		<u>X</u>	
).	EPN No	ee attached NPV-1 Code Data Repor Sorial No	ts for the following new va	lvės	i	i   	1 1	1
	CEP-V-3A CEP-V-4A	93-2544-02(N)-01 93-2544-02(N)-02						
			6 - 4 0			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	,	CER	TIFICATE OF COMI	PLIANCE			1 1	
	We certify t	that the statements made in :	this Owner's Report	are correct and	<i>this</i> replace	ment <i>con</i>	forms	<b>5</b>
		of the ASME Code, Section			1 1	1 1		
	Type Code	Symbol Stamp: Not applicable						
Į	Certificate	Of Authorization No.: Not appli	cable	1 1 1 1	1 1 1	1		
I	Expiration .	Date: Not Applicable						
	Prepared B		الا Signed By		<u>~</u>			<u>.</u> .
		Kuldip Singh - Materials And In	spection	7	Aatorials And	Inspection		
		115 - 10-4			75			
	Date	6 20 33	Date	60/611	<u> </u>			-
Í	Date	<u> </u>	Date	Ç., C11				
		<i>(</i> φ) 28 [Υ]	Date					
	Date	CERTIFIC	Date ATE OF INSERVICE				I I	
	i, the under	rsigned, holding a valid comp pectors and the State of Wasi tual Engineering Association) of	ATE OF INSERVICE mission issued by th hington and employed Norwood, Massachus	E INSPECTION  The National Boar  The dot by Arkwright Muletts have inspec	d of Bolle itual Insura ted the co	nce Comp mponen	oany 🗀	
	I, the under Vessel Insp (Factory Mur described is state to the corrective	rsigned, holding a valid compectors and the State of Wash tual Engineering Association) of in this Owner's Report during be best of my knowledge and i measures described in this G	ATE OF INSERVICE mission issued by the hington and employed Norwood, Massachus the period 3-2 belief, the Owner has	E INSPECTION  The National Boar  If by Arkwright Mu  The State Inspection  The State Ins	d of Bolle itual Insura ted the co 6 - 20 - minations	ince Comp imponent 95 and take	and and	
	I, the under Vessel Insp (Factory Mur described in state to the corrective ASME Cod By signing implied, co	rsigned, holding a valid compectors and the State of Wash tual Engineering Association) of in this Owner's Report during the best of my knowledge and if measures described in this ( ie, Section XI this certificate neither the in	ATE OF INSERVICE mission issued by the hington and employed Norwood, Massachus g the period 3-2 belief, the Owner has Dwner's Report in access aspector nor his empand corrective meas	INSPECTION  The National Boar  If by Arkwright Muletts have Inspect  If Post to 1  The performed example of the cordance with the cordance with the cordance of the cordance o	d of Bolle itual Insura ted the co G-20- minations he require y warranty n this Owi	ance Components  and take ments of components  and take ments of components  and take ments of components  and take and	oany   ts   and en : f the   sed o	
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	I, the under Vessel Insp (Factory Mur described in state to the corrective in ASME Cod By signing implied, con Furthermon injury or pi	rsigned, holding a valid compectors and the State of Wash tual Engineering Association) of in this Owner's Report during be best of my knowledge and in measures described in this Colle, Section XI of this certificate melther the inspector nor	ATE OF INSERVICE mission issued by the nington and employed Norwood, Massachus of the period 3-2 belief, the Owner has Dwner's Report in according the ning corrective measuring the period arising from	E INSPECTION  The National Boar  If by Arkwright Muetts have Inspection  If contains to the secondance with the secondance with the secondance with the liable in any man or connected with the secondance wit	d of Bolle tual Insura ted the co 6 - 20 - minations he require y warranty n this Own nanner for with this in	ance Components  and take ments of y, express ner's Rep any pers	oany   ts   and en   f the sed o oort.   sonal	

·	COC Valva	Co Nictor Proficts	Div • 10 Chestrud	- Ava • Westmont II G	0559
		(name and addre	ess of N Certificate molder	Ave.; Westmont, IL 6	0005
2. Manufactured for W	ashington Public Po	wer Supply; P.O. BOX 9	68; Richland, Wash	nington 99352-0969	
		(name and address	of Purchaser)		
3. Location of installati	on WNP-2 OPS WHS Co	mplex, WHS #1; North P	<u>tower Plant Loop; l</u> id address)	Richland, WA 99352	
4. Model No., Series No	o., or Type Purge Ver	t Drawing 93-2544	<u>-02(N)</u> Rev	B CRN N/A	
5. ASME Code, Section	n III, Division 1:	1989 No Adden		(Code Case no.)	
6. Pump or valve	Valve Nomin	al inlet size 24"	Outlet size <u>24"</u>	(in.)	
	A 216 CD LICR -	(in.)	SA 216 GR WCR	Bolting SEE BACK SIDE OF	PAGE
7. Material: BodyS	A 210 GR. WCD Bonne	etDisk	34 210 CK. NO	Boiting Joe Wor Orde of	. , , , ,
(a)	(b)	(c)	(d)	(e).	
Cert.	Nat'i	Body	Bonnet	Disk	
Holder's	Board	Serial	Serial	Serial	
Serial No.	No.	No.	No.	No.	
93-2544-02(N)-01	N/A	HEAT: 2112994	N/A	HEAT: 2113094	
<u> </u>		SERIAL: N20643-1		SERIAL: N20644-1	
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(12/88)

<sup>\*</sup>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.

FORM NPV-1 (Back — Pg. 2 of 2)

	•				Cer	tificate Holder's	s Serial No	<u>93-2544-02(N</u> )-
8.	Design conditions	218	psi	340		valve pressure	•	150
v.	Design conditions	(pressure)	p,	(temperature)		Tare product	0,000	\
9.	Cold working pressure .	285	psi at	100°F			1 1	1
10.	Hydrostatic test	450 psi	i. Disk differe	ential test pres	sure	<u> </u>	45	psi
11.	Remarks: _COVER_PLA	TE -	MATERIAL:	SA 516 GR.		HEAT CODE		· · · · · · · · · · · · · · · · · · ·
		CAP SCREW -	MATERIAL:	SA 193 GR.	B7	TRACE COD		·
	GLAND -		MATERIAL:		70	HEAT CODE		<del>                                     </del>
	STUD -		MATERIAL:	<u>SA 193 GR.</u>		HEAT CODE		•
	HEX NUT -		MATERIAL:	SA 194 GR.		HEAT CODE	2.42	
	PIPE PLUG	-	MATERIAL:	SA 479 TYF	E 316	HEAT CODE	: ULE	
			~-	. !			1 1	:
	•	•	CERTIF	ICATION OF D	ESIGN			
•			ACK R. COLE	•	•	lachinaton		205552
	sign Specification certifi		N/A			<u>Washington</u>		206563
De	sign Report certified by		N/A		. P.E. State	8	Reg. no	
				. !			. i i	1
			CERTIFIC	ATE OF COMP	LIANCE	<del></del>		
W	e certify that the stateme	ents made in this	report are co	rect and that t	his pump o	r valve conform	s to the rules f	or construction
	the ASME Code, Section							
Ň	Certificate of Authorizati	on No	N-2	2723		Expires _	6/20/9	5
Da	te <u>3/8/95</u> Nar	ne C&S Valve	e Co., Nucle	ear Products				
		()	N Certificate Ho	lder)	L Oigno	(autho	rized representa	tive)
			· · · · · · · · · · · · · · · · · · ·	. :		<u> </u>		1
			CERTIFIC	CATE OF INSPI	CTION			
	•		00.,,,,,				i i	
	the undersigned, holding	a valid commi						
	State or Province of Norwood, Mass							Insurance Co.
ot	Norwood, Mass			•	•	• •		Data Report on
						end belief, the	e Certificate H	older has con-
str	ucted this pump, or valv	e, in accordance	e with the ASI	ME Code, Sect		sion 1. Mutual Engi	neerina Ass	ociation
	signing this certificate,				es any war	ranty, expresse	d or implied,	concerning the
	mponent described in thi							any manner for
ิลก	y personal injury or prop	erty damage or a	a loss of any k	ind arising fror	u or coune	cted with this in	ispection.	
Da	te <u>3-10-95</u> Signed	Charles	macols	Commissions	NBIO	6540 11	1469	0H10
		(Authorized	inspector)	+ 1	(Nat'l. Bd	i. (incl. endorseme	ints) and state o	r prov. and no.

(1) For manually operated valves only.

Elk Wyss flofes

CEP-V- 4A

PLAN NO. 2-1166

FORM NPV-1 CERTIFICA. HOLDERS' DATA REPORT FOR NUCLEA. PUMPS OR VALVES\*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2 GUS

						1 had-	TI COI	
, 1.	Manufactured and	certified byC&S \	Valve Co., Nu	clear Products	Div.; 40 Chestnu	t Ave.; wesu	DITE, IL 60	559
		lhabinahan Dibl	ia Dama Cima		ss of N Certificate Holder		:2_060	
2.	Manufactured for _	wasningwn rubi	ic rower supp	Iname and address	68; Richland, Was	iningwi 330	2-0303	
_	I!	LIND_2 NOS LI	HS Compley W	•	ower Plant Loop;	Richland, WA	99352	
3.	Location of installar	tion MV-2 U-3 K	ib wibiex, k		d address)	itteritaria, 75.		
4.	Model No., Series N	No. or Type Purg	e Vent pra	wing 93-2544	-02(N) Rev. B	CRN_	N/A	
•							41.74	
5.	ASME Code, Section	on III, Division 1: .	1989	No Adden			N/A Case no.)	
		Value	(edition)	(addenda da 2411	-		Case no.;	
6.	Pump or valve	<u>Valve</u> ı	Nominal inlet size	(in.)	Outlet size _24 <sup>t</sup>	(in.)		
. 7	Material: Body	SA 216 GR. WCB	Ronnet	• · · · •	SA 216 GR. WCB		CK SIDE OF	PAGE
7.	Material: Body	<u> </u>	Somet	UISK	,	.botting		
	(a)	(b)		(c)	(d)	(	e)	
	Cert.	Nat'i		Body	Bonnet	D	isk	
	Holder's	Board		Serial	Serial	Se	rial	
	Serial No.	No.		No.	No.	1	lo.	
93.	-2544-02(N)-02	N/A	HEAT:	2112994	N/A	HEAT:	2113094	
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<sup>\*</sup>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.

FORM NPV-1 (Back - Pg. 2 of 2)

	•		Certificate Holder's Serial No.	93-2544-02(N)-0
2	18:	340	oF or valve pressure class	450
8. Design conditions	ps:	(temperature)	or valve pressure class	
	ne .	t 100°F		: !
10. Hydrostatic test450	psi. Disk diffe	rential test pres	<u>s</u> ure45	psi
11. Remarks: <u>COVER PLATE</u> - HEX HEAD CAP SCRI		SA 516 GR.		
GLAND -	فنبصا يصنيس منكري سيناس الهور	: SA 516 GR.	114 100 100011	SE ·
STUD -		: SA 193 GR.		3
HEX NUT -	MATERIAL:		والمراجعة والمناب والمناب والمناب والمناب والمناب والمنابط المنابط المنابط والمناب والمناب والمناب	7
PIPE PLUG -	MATERIAL			E
	CERT	FICATION OF D	PESIGN	
	ארע פ רחו	E	Mahinatan	205562
Design Specification certified by	A1/A	<u> </u>	P.E. State Washington Reg. no	
Design Report certified by	N/A		P.E. State Reg. no	)
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,		1	The second secon	
	CEDTIE	CATE OF COME	DIANCE	
}	CERTIF	CATE OF COME	LIANCE	
We certify that the statements made	in this report are c	orrect and that t	his pump or valve conforms to the rule	es for construction
of the ASME Code, Section III, Divis		i i		3 101 00113110011011
N Certificate of Authorization No.	11	-2723	Expires6/20	/95
Date 3/8/95 Name C&S	Valve Co., Nuc	lear Products	5 Divsigned Intelcan	)
	(N Certificate H	folder)	tauthorized represe	ntative)
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q.				
	<del></del>			
	CERTIF	ICATE OF INSPI	ECTION	
•				
			al Board of Boiler and Pressure Vess d employed by *Allendale Mitua	
of Norwood, Massachuset			ted the pump, or valve, described in the	
	, and state that to		knowledge and belief, the Certificate	
structed this pump, or valve, in acco	rdance with the A	SME Code, Sect	ion III, Division 1.	
	•		*Factory Mutual Engineering	Association
By signing this certificate, neither the	he inspector nor hi		es any warranty, expressed or implie	
			pector nor his employer shall be liable	in any manner for
any personal injury or property dama	ige or a loss of any	kind arising from	n or connected with this inspection.	
00	ر الذي من الم	1	and a contract of	
Date 3-10-95 Signed War	المالية المالية	Commissions	NBIOGS4A ZLIY69	OHI U

(1) For manually operated valves only.

E10 11755 3/10/45



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,
- 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



Tests Conducte	d: Hydrostatic Pneumatic Test Pressure: 82 Psig Component Design Pressure	Tos	erating Pressure at Temperature: 110 perature: 170° F		ther Non
Remarks: None		• E			
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	CERTIFIC	ATE OF COMPLIA	NCE		
to the rules of Type Code Syl	t the statements made in this O the ASME Code, Section XI mbol Stamp: Not applicable Authorization No.: Not applicable e: Not Applicable	Owner's Report are o	correct and this rep	pair confe	orms
Fiepaleu by _	Kuldip Singh - Materials And Inspection	n Jighed by	Manager, Materials	And Inspe	ction
Date	6/20/95	Date	121/95		
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Vessel Inspect (Factory Mutual described in the state to the be corrective med ASME Code, S By signing this implied, conce Furthermore, I	ned, holding a valid commissions and the State of Washington Engineering Association) of Norworks Owner's Report during the just of my knowledge and belief, asures described in this Owner	n and employed by rood, Massachusetts he period 3-27- the Owner has period if a Report in accordator nor his employed prective measures amployer shall be lially indarising from or control	ational Board of Board of Board Inspected the 195 to 6-2 formed examination of the requirement of the second of th	surance C compositions and cons and culrement anty, exp Dwner's for any	company nents and taken ts of the pressed or Report. personal
/ 4					
	spector's Signature	Commissions _	National Board, State	, and End	orsements

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 nozzie in the valve. The nozzie 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

#### OTES.

- 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



	cted: Hydrostatic Test Pressure: Component De			al Operating Pr ∃Test Tempera □ Temperature:	<i>iture:</i> 198.6/67.4° F	. [] '\
Remarks: 1) I Pneumatic press	Nominal operating pressu sure test on the relief valve	ure test on the relief to body to bonnet joi	valve inlet joint - * nt - Test pressure	Test pressure of 102 of 7.5 Psig and tes	23 Psig and test temperate t temperature of 67.4 <sup>0</sup> F	ure of 198
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to the rules	of the ASME Code,	, Section XI.	1 1			
	Symbol Stamp: Not /		1			
	Of Authorization No.	.: Not Applicable				
Expiration E	Date: Not Applicable		i 1			
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	Kuldip Singh - Mater	ials And Inspection	, I	Manager,	Materials And Inspection	
Date	82195		Date	1/15/95		. —
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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

- 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



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marks: None		
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CERTI	IFICATE OF COMPLIANCE	
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the rules of the ASME Code, Section X		
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Kuldip Singh - Materials And Inspe		And Inspection
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the undersigned, holding a valid comm	ngton and employed by Arkwright Mutual Ins	surance Company 📑
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Date: 6/20/95

Sheet: 1 of 1

Unit: WNP-2



### 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: 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 Volvo 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

National Board, State, and Endorsements



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) 8 Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other None Test Temperature: 84° F Test Pressure: 1100 Pskg Component Design Pressure: 3600 Psig 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 - Materials And Inspection Signed By Manager, Materials And Inspection 6/20/95 Date\_ 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 Commissions NB9318 W

Inspector's Signature

Date

PLANNO. 2-1197

N/A

"F or Valve Pressure Class .

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES. Quiday Surph As Required by the Provisions of the ASME Code, Section III, Div. 1

-		<del>III:</del> 1∨e Nominal	•	inch)	e Size	(inch)
(a) Model N Series No or Type	o., (b) N Cartificate H , Serial No.	older's (c) Canadian Registration No.		(a) Class	(f) Nati. Bd. No.	(g) Year -Built
1)	53204	N/A	76880	1	N/A	1980
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ps: # 100°F.

(Temperature)

7. Cold Working Pressure ....
8. Pressure Retaining Pieces

6. Design Conditions

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<sup>(1)</sup> 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 117, (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

This form (E00037) may be obtained from the Order Dect., ASME, 345 E. 47th St., New York, N.Y. (10017)

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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)

Sheet: 1 of 1
Unit: WNP-2

Date: 7/31/95

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



<b>8</b> 1	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F
<i>9.</i> the	Remarks: Pressure test to confirm pressure boundary integrity on the flanged joints will be performed when the spare valve is install a system under a separate ASME Section XI plan
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•	
	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
1	Type Code Symbol Stamp: Not Applicable  Certificate Of Authorization No.: Not Applicable
I	Expiration Date: Not Applicable
	Prepared By Kuldip Singh - Materials And Inspection Manager, Materials And Inspection
1	2/-/-
1	Date 6/2/13 Date 8/73/95
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boller 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 9-2-95 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
I	Inspector's Signature National Board, State, and Endorsements
Ì	Date august 16, 1995

Date: 7/31/95

Sheet: 1 of 1

Unit: WNP-2



### 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: 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 Crosby Crosby	B22-G001B-P1	NVA	N/A	1983	Replacement	Yes, Code Class 1
MS-RV-1B		N63790-00-0120	NVA	N/A	1981	Replaced	Yes, Code Class 1
MS-RV-1B		N63790-01-0140	NVA	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



Tests Conducted: Hydrostatic Pneumatic Test Pressure: 1023 Paig Component Design Pressure:	Test Temperature: 198.6° F	er 🔲 No
Remarks: 1) See attached NV-1 Code Data Report for MS Nominal operating pressure test on the relief valve inlet joint	SRV, Serial No N63790-01-0140 - Test pressure of 1023 Psig and test temperature of 198.6° F	: ; ; ;
CERTIFICA	ATE OF COMPLIANCE	1 1 1
	wner's Report are correct and this replacement co	nforms
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 - Materials And Inspection	Signed By Manager, Materials And Inspection	<del>n</del>
Date8\2\5\	Date P/15/95	
CERTIFICATE	OF INSERVICE INSPECTION	
Vessel Inspectors and the State of Washington (Factory Mutual Engineering Association) of Norwo described in this Owner's Report during the	on Issued by the National Board of Boller and Pin and employed by Arkwright Mutual Insurance Concod, Massachusetts have inspected the component of 15-4-95 to 18-2-95	npany nts and
state to the best of my knowledge and belief, corrective measures described in this Owner ASME Code, Section XI	the Owner has performed examinations and tal 's Report in accordance with the requirements	of the
implied, concerning the examinations and co Furthermore, neither the inspector nor his en	lor nor his employer makes any warranty, expre prective measures described in this Owner's Re apployer shall be liable in any manner for any pe	eport. ersonal :
injury or property damage or a loss of any kil	nd arising from or connected with this inspectio	חכ
17/	Commissions NB93/8 93/8W A.	N. I
Inspector's Signature	National Board, State, and Endors	ements
Date Classes 16, 1995		
1 / /		

## C R O S B Y

# CROSBY VALVE & GAGE COMPANY WRENTHAM, MA

PLAN NO. 2-1200.

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

ቜ	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.	2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM RICHLAND.Worder No.238136 C/N 02 (Name and Address)								
3.	3. OwnerWASHINGTON PUBLIC POWER SUPPLY SYSTEM RICHLAND, WA (Name and Address)								
4.	Location of PlantHANFORD # 2								
5.	Valve Identification <u>B22-F013</u>	Serial No. <u>N6379</u>	00-01-0140 Drawing No.DS-A-63790-	1 REV					
	Type MAIN STEAM (Safety, Safety Relief, Pilot,Power A		Pipe Size Inlet_6 Outlet_1( (Inch) (Inch) (In	O					
	Set Pressure 1165.0	56!		E					
	Stamped Capacity 876878 LB./HR.SA' Hydrostatic Test (PSIG) Inlet 2370	T.STM.@_3 % Overpress	emperature sure <u>Blowdown (psig) 2 THRU 11</u> 1100						
∄	The material, design, construction and w		ME Code, Section III.						
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	Class I Edition 1971, Addenda Da	Serial No.	e No Material Specification						
a.	Castings	Serial No. Identification	Material Specification. Including Type or Grade						
	Castings Body	Serial No. Identification N93183-47-0130	Material Specification Including Type or Grade ASTM A105 GR.II						
a.	Castings Body Bonnet	Serial No. Identification	Material Specification. Including Type or Grade						
	Castings Body	Serial No. Identification N93183-47-0130 N93407-47-0058	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II	·					
a.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II  ASME SA182 GR.F316						
a.	Castings Body Bonnet Bar Stock & Forgings Support Rods	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II	·					
a.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzie Disc	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060	Material Specification Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II  ASME SA182 GR.F316 ASME SA637 GR.718	·					
a.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II  ASME SA182 GR.F316 ASME SA637 GR.718  ASTM A105 GR.II ASME SA193 GR.B6						
a.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle Disc Spring Washers Adjusting Bolt Spindle	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007 N96461-34-0015	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II  ASME SA182 GR.F316 ASME SA637 GR.718  ASTM A105 GR.II ASME SA193 GR.B6 ASTM A564 TYPE 630	,					
a. b.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle Disc Spring Washers Adjusting Bolt Spindle Spring	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II  ASME SA182 GR.F316 ASME SA637 GR.718  ASTM A105 GR.II ASME SA193 GR.B6	,					
a. b. c. d.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle Disc Spring Washers Adjusting Bolt Spindle Spring Bolting	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007 N96461-34-0015	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II  ASME SA182 GR.F316 ASME SA637 GR.718  ASTM A105 GR.II ASME SA193 GR.B6 ASTM A564 TYPE 630	,					
a. b. c. d.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle Disc Spring Washers Adjusting Bolt Spindle Spring Bolting Other Pieces DISC HOLDER	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007 N96461-34-0015 NX2689-0138 N89714-42-0279	Material Specification Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II ASME SA182 GR.F316 ASME SA637 GR.718  ASTM A105 GR.II ASME SA193 GR.B6 ASTM A564 TYPE 630 ASTM A304 GR.4161 H  AMS5662B(INCONEL718)	·					
a. b. c. d. e.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle Disc Spring Washers Adjusting Bolt Spindle Spring Bolting Other Pieces DISC HOLDER SPINDLE BALL	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007 N96461-34-0015 NX2689-0138 N89714-42-0279 N96460	Material Specification. Including Type or Grade  ASTM A105 GR.II  ASTM A105 GR.II  ASME SA182 GR.F316  ASME SA637 GR.718  ASTM A105 GR.II  ASME SA193 GR.B6  ASTM A564 TYPE 630  ASTM A304 GR.4161 H  AMS5662B(INCONEL718)  ASTM A276 T440C						
a. b.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle Disc Spring Washers Adjusting Bolt Spindle Spring Bolting Other Pieces DISC HOLDER SPINDLE BALL ADJ BOLT BUTTON	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007 N96461-34-0015 NX2689-0138  N89714-42-0279 N96460 N93411-36-0015	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II  ASME SA182 GR.F316 ASME SA637 GR.718  ASTM A105 GR.II ASME SA193 GR.B6 ASTM A564 TYPE 630 ASTM A304 GR.4161 H  AMS5662B(INCONEL718) ASTM A276 T440C ASME SA193 GR.B6						
a. b. c. d. e.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle Disc Spring Washers Adjusting Bolt Spindle Spring Bolting Other Pieces DISC HOLDER SPINDLE BALL ADJ BOLT BUTTON THRUST BEARING ADAPTER	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007 N96461-34-0015 NX2689-0138  N89714-42-0279 N96460 N93411-36-0015 N93409-35-0012	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II ASME SA182 GR.F316 ASME SA637 GR.718  ASTM A105 GR.II ASME SA193 GR.B6 ASTM A564 TYPE 630 ASTM A304 GR.4161 H  AMS5662B(INCONEL718) ASTM A276 T440C ASME SA193 GR.B6 ASTM A193 GR.B6 ASTM A193 GR.B6						
a. b. c. d.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle Disc Spring Washers Adjusting Bolt Spindle Spring Bolting Other Pieces DISC HOLDER SPINDLE BALL ADJ BOLT BUTTON THRUST BEARING ADAPTER BONNET STUD	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007 N96461-34-0015 NX2689-0138  N89714-42-0279 N96460 N93411-36-0015 N93409-35-0012 N93207	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II ASME SA182 GR.F316 ASME SA637 GR.718  ASTM A105 GR.II ASME SA193 GR.B6 ASTM A564 TYPE 630 ASTM A304 GR.4161 H  AMS5662B(INCONEL718) ASTM A276 T440C ASME SA193 GR.B6 ASTM A193 GR.B6 ASTM A193 GR.B6 ASTM A193 GR.B6						
a. b. c. d.	Castings Body Bonnet Bar Stock & Forgings Support Rods Nozzle Disc Spring Washers Adjusting Bolt Spindle Spring Bolting Other Pieces DISC HOLDER SPINDLE BALL ADJ BOLT BUTTON THRUST BEARING ADAPTER	Serial No. Identification  N93183-47-0130 N93407-47-0058  N93184-53-0167 N93185-52-0204 N93186-41-0060 N93187-40-0007 N93410-33-0007 N96461-34-0015 NX2689-0138  N89714-42-0279 N96460 N93411-36-0015 N93409-35-0012	Material Specification. Including Type or Grade  ASTM A105 GR.II ASTM A105 GR.II ASME SA182 GR.F316 ASME SA637 GR.718  ASTM A105 GR.II ASME SA193 GR.B6 ASTM A564 TYPE 630 ASTM A304 GR.4161 H  AMS5662B(INCONEL718) ASTM A276 T440C ASME SA193 GR.B6 ASTM A193 GR.B6 ASTM A193 GR.B6						

We certify that the statements made in this report are correct.  Date 27 May 94 Signed Crosby Valve & Gage Company by Consume Manufacturer  Certificate of Authorization No. 1878 expires 30 SEP 95.	
CERTIFICATE OF SHOP INSPECTION  1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusatts, and employed by Arkwright Boston Manufacturers Mutual Insurance Company have inspected the equipment described in this Data Report on Haz 27, 19 57 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.  Pactory Mutual System  Date 5/27, 19 51.  Signed A D C (Inspector)  Commissions Matys  (Nat'I, Bd., State, Prov. and No.)	

Date: 7/31/95

Sheet: 1 of 1

Unit: WNP-2



### 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: 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 "Bailty" 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



8	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure None  Test Pressure: 1023/7.8 Psig  Test Temperature: 198.6/72° F  Component Design Pressure: 1250 Psig  Temperature: 575° F
2) do 3)	Remarks: 1) See attached NV-1 (Pre - Modification) Code Data Report for MSRV, Serial No N56000-01-0037 See attached "Repair And Replacement To Nuclear Components And Systems In Nuclear Power Plants" Certification Report (QC 292A) cumenting the modification (upgrade) work performed by Crosby for "Bailly" MSRV, Serial No N56000-01-0037 Nominal operating pressure test on the relief valve inlet joint - Test pressure of 1023 Psig and test temperature of 198.6° F 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 - Materials And Inspection  Date  Date  Date  Date
	I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State of Washington and employed by Arkwight Mutual Insurance Company (Factory Mutual Engineering Association) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5-/0-95 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  Commissions NB 93/8 93/80 A.A. Inspector's Signature  National Board, State, and Endorsements
	Date August 16, 1995

### C R O S B Y

### CROSBY VALVE & GAGE COMPANY WRENTHAM. MA

PLAN NO. 2-1201

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

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### REPAIR AND REPLACEMENT 7/11/15 TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

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	7.	Work performed by Crosby Valve & Gage Company 43 Kendrick St. Wrentham. MA 02093	-6
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彐	2.	Owner WASHINGTON PUBLIC POWER RICHLAND, WA 99352-0968	≡
丮		' (Name and Address)	_[=
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≢	3.	Name and Identification of Nuclear Power Plant HANFORD #2	– <b>∤</b> ≣
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3	4.	Address of Nuclear Power Plant_RICHLAND .WA	<u>_</u> E
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3	5.	a. Identifying Nos. N63790-00-0134 1973	-#≣
囯		(Mfr's Serial No.) (Nat'l Bd. No.) (Jurisdiction No.) (Other) (Year Built)	E
∄		b. Identification of component repaired or replacement component	_⊫
<b>≢</b>		c. Name of Manufacturer CROSBY VALVE & GAGE COMPANY	_⊨
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		Tests conducted: Hydrostatic (X) Pneumatic ( ) Design Pressure ( ) Pressure 2370.0 psi	I≣
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Ŧ	7	Identification of System MAIN STEAM -	`  ≣
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3	٠.	Applicable decadings,	E
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-	<u> </u>	Description of work N56000-01-0037 WAS MODIFIED TO N63790-00-0134	7=
7	J.	(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)	
3			-Œ
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3		ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.	
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=	10	ASME SEC.XL1980 EDITION WINTER 1980 ADDENDA.	
1	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:  PART PART NO. MODIFIED TO PART NO.	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:  PART PART NO. MODIFIED TO PART NO.  BODY N90118 N93183-43-0126	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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	
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	10.	ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.  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  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 NX2689-0132  ADJ.BOLT N89726 N93410-36-0132  ADJ.BOLT BUTT. COMMERCIAL N93411-33-0008  ADJ.BOLT ASSY COMMERCIAL K63618-31-0001	
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Certificate Holder's Serial NoN63790-00-0134	O.C292, REV. A SHEET 2 OF 2
CERTIFICATE OF COMPLIANCE .	
We certify that the statements made in this report are correct and all design, material, a MOD conforms to the applicable section of the ASME Code.	nd workmanship on this
(repair/replacement)	
Signed Lawrence + July QA Con Monager:  (Authorized Rep. of Repair Organization) (Title)	24 FE 1974
(Authorized Rep. of Repair Organization) (Title)	(Date)
Constitution with the second to the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the special of the	in the special control of the second section in the
CERTIFICATE OF INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler a	nd Pressure Vessel
Inspectors and the State or Province of <u>Massachusetts</u> and employed by the state of <u>Massachusetts</u> have inspected the repair or replacement described of <u>Norwood</u> , <u>Massachusetts</u> have inspected the repair or replacement described on the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	bed in this report on
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 on

Commissions

Factory Mutual Systems

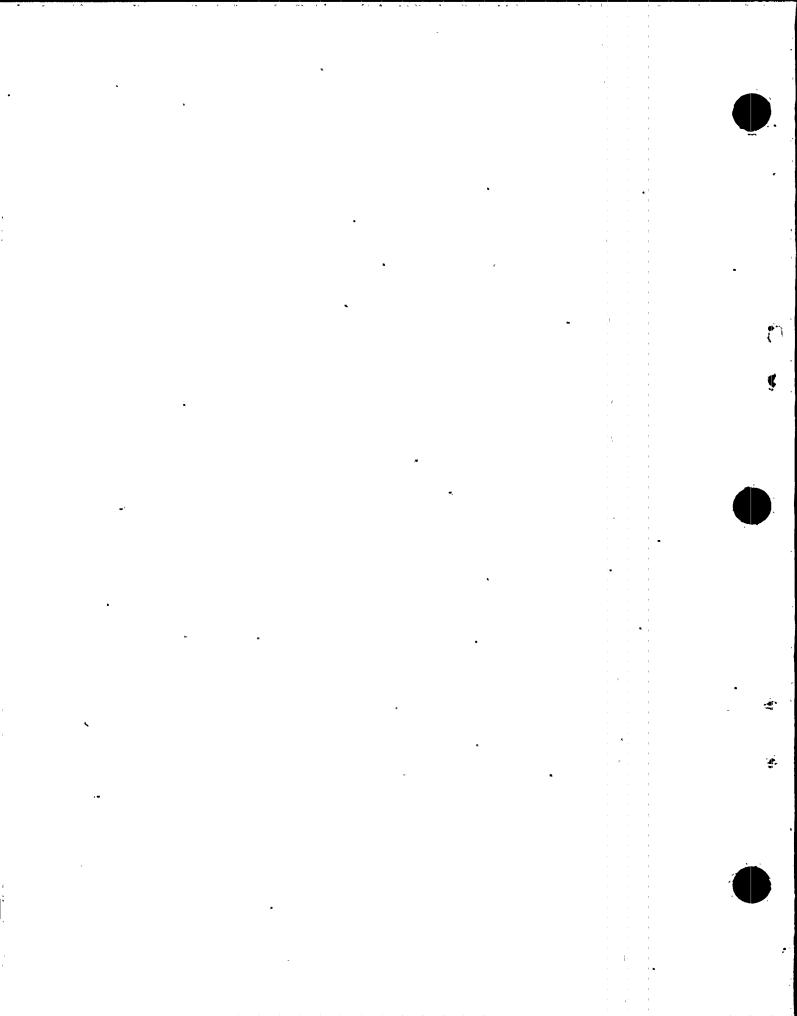
(Nat'l. Bd., State, Prov. and No.)

connected with this inspection.

(Inspector)

Signed

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



CROSBY

PLAN NO. 2-1201

Bulant Sun 3/90/ 3 E COM PANY BGAGE VALVE

WRENTHAM, MASS

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

CROSBY

Q.C.-44A

	DATA REPORT Safety and Safety Relief Va	lves
1. Manufactured By Crosby Valve	& Gage Co., 43 Kendri	ck St., Wrentham, Mass. 02093
	<ul> <li>Name and Address</li> </ul>	
Model No. HB-65-BP-FN	Order No. N-105286	Contract Date 6/28/71
General Elect:	ric Company	Contract Date 6/28/71
2. Manufactured For San Jose, Cal:	ifornia '	Order No205-AD148
3. Owner Northern Indiana Publ	ic Service Co., Baill Name and Address	y Generating Station Nuclear I, Baileytown, Indiana
	•	• •
4. Location of Plant Baileytown,	Indianá	
5. Valve Identification MPL #B-22-FO	13 Serial No. <u>N56000-01-</u>	0037 Drawing No. H-56000 Rev. C
Type Safety Relief Safety, Safety Relief, Pilot, Power	Orifice Size	R Pipe Size - Inlet 6 Outlet 10
6. Set Pressure (PSIG) 1175		575° Rated Temperature
0. 561 1.65566 (1.516)		Rated Temperature
Stamped Capacity 883950 Sat. Steam	Lbs. Hr. & 3 % Overpr	essure Blowdown (PSIG)5%
Hydrostatic Test (PSIG) Inlet	2370 Com	plete Valve 825
7. The material, design, construction and	workmanship comply with ASM	Code. Section III.
		ddenda Date <u>Summer 1972</u>
KWXIX		ddenda Date
Pressure Containing or Pressure Retain	ning Components	
		Material Specification
. VVVIIVIEV Porcince	Serial No. Identification	Including Type or Grade
a.XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Incillingtion	ASTM A-105-71 Gr. II
Body	N90118-32-0008	ASME SA-105 Gr. II
Bonnet EXXXXX	N89717-32-0021	ASTM A-105-71 Gr. II ASME SA-105 Gr. II
h Das Steels and Forestee		
b. Bar Stock and Forgings	200775 01 0000	ASTM A-461-65 Type 630
XXXXXXXXXX Disc Insert	N89715-31-0028	ASTM A-461-65 Type 630 ASTM A-182-71 F316
Nozzle	N89713-32-0039	ASME SA-182 f316
•	NR071/22-0027	AMS 5662 B
Disc Holder Top	N89714-32-0037 N89724-32-0037	AMS 5662 B ASIM A-105-71 Gr. II
Spring Washers Bottom	N89723-31-0008	ASME SA-105 Gr. II
Adjusting XXXX Bolt	N89726-33-0046	ASTM A-193-71 GF B6 ASME SA-193 GF B6
Spindle Point	N89720-32-0046	ASTM A-564-72 Type 630

Senal No. or

Material Specification

Identification

Including Type or Grade

c. Spring	NX2689-0042	ASTM A-304-66 Gr. 4161H
d. Bolting	-	
e. Minak karak kolenkar kolenkar karak karak karak karak karak karak karak karak karak karak karak karak karak		
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 C1. 2H ASME SA-194 C1. 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
	<b></b>	
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	s report are correct.	
Date 10-31 1973 Signed		-,
	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 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.

damage or a loss of any kind arising from or connected with this inspection.

\*Factory Mutual Group of Insurance Co.

Date Control of Commissions N.B. & C.S. Mass. 109 Co.

(Inspector)

Commissions National Board, State, Province and No.)





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

- 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	Name Of	Manufacturer's	National	Other	Year	Repaired,	ASME Code
Component	Manufacturer	Serial No	Board No	I.D.	Built	Replaced Or Replacement	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



	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
<b>8</b> ,	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 Quids Surb Signed By Manager, Materials And Inspection  Date 62195 Date 6/21/95
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boller 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  Commissions NB 9318 W A, N, T  National Board, State, and Endorsements
	Date 6-22-95



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,

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		N/A	N/A	1982	Ropair	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



8	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Non Test Pressure: Psig Temperature: ° F Component Design Pressure: Psig Temperature: ° F
9.	Remarks: None
1	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
	I, the undersigned, holding a valid commission issued by the National Board of Boller 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  Commissions NB 93/8 W A, N, T  National Board, State, and Endorsements  Date 6-22-95

Date: 6/21/95

Sheet: 1 of 1

Unit: WNP-2



### 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)

- 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



Соп	t Pressure: Psig nponent Design Pressure		rating Pressure Temperature: ° perature: ° F		۸₁ ل_
Remarks: None		• E			
				1 <u>1</u>	
				4 4 9 3	
	CERTIFIC	CATE OF COMPLIAN	ICE		1
Ne certify that the s	statements made in this C	Owner's Report are c	orrect and this	opeir <i>conform</i> s	
o the rules of the A	SME Code, Section XI			i i i	
Type Code Symbol		.   1 1 1			
	orization No.: Not applicable	!			
Expiration Date: Not	Applicable	A		1 1	
repared By	Joleh Circh	Signed By	ME		
<i>repared by <u>V.C.</u></i> Kuldin	Singh - Materials And Inspection		Manager, Material	s And Inspection	_
	21125	Date 6/	12:195		
Date	eja 13		<u> </u>		
			····		
•				, , , , ,	
-	CERTIFICATE	OF INSERVICE INS	PECTION		1
Vessel Inspectors a	holding a valid commission and the State of Washington	ion issued by the Na on and employed by i	Arkwright Mutual II ave Inspected th	nsurance Company ne <i>components</i>	<b>,</b>
Vessel Inspectors a Factory Mutual Engin lescribed in this Or state to the best of corrective measure ASME Code, Section	holding a valid commission the State of Washington eering Association) of Norwards Report during the my knowledge and belief as described in this Owner XI	ion issued by the Na on and employed by A rood, Massachusetts h period <u>5-20-</u> f, the Owner has peri er's Report in accord	Arkwright Mutual II ave Inspected the Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second	nsurance Company ne components 21-95 and lions and taken quirements of the	d ,
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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

- 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



FORM NIS-2 OWNER'S REPORT FO	R REPAIRS OR REPLACE	MENTS	(Back)		. !
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Component Design Pressure: Psi	ig : ' <b>Temperature:º</b> F	1 1	i i		
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We certify that the statements made in this Own	er's Report are correct and ti	1/S repair	conform	<b>5</b>	:
to the rules of the ASME Code, Section XI Type Code Symbol Stamp: Not applicable					
Certificate Of Authorization No.: Not applicable		1 1			
Expiration Date: Not Applicable					
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Prepared By Kulchife Esups s	Signed By	•			. }
Kuldip Singh - Materials And Inspection	Manager, Ma	terials And	Inspection		
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, the undersigned, holding a valid commission i	ssued by the National Board	of Boile	r and Pre	ssure	<b>,</b>
Vessel Inspectors and the State of Washington and	nd employed by Arkwright Muti	ial insura	ince Com	pany !	
Factory Mutual Engineering Association) of Norwood, described in this Owner's Report during the peri	Massachuseus <i>nave inspecte</i>	-21-6	1111ponem 9.5	and	•
state to the best of my knowledge and belief, the	Owner has performed exam	inations	and take		: :
corrective measures described in this Owner's F	Report in accordance with the	e require	ments o	f-the :	1
ASME Code, Section XI		1 1	1 1		
By signing this certificate neither the inspector i	nor his employer makes any	warranty	i, expres	sed o	r 🔡
implied, concerning the examinations and corre	ctive measures described in	this Owi	ner's Rep	ort.	
Furthermore, neither the inspector nor his emplo injury or property damage or a loss of any kind a	oyer shall be liable in any ma relains from or connected wi	nner tor h this is	any per	sonai :	, i•
njury or property damage or a loss of any kind a	arising nom or connected wa	ar una m	specaer		. '
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Inspector's Signature	National Board	i, Stato, ar	nd Endorse	ments	_
Date 6-22-95					4
Date 6-22-95		1 1	1 1		1



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)

Address: Hanford Reservation, Benton County, Washington

Unit: WNP-2

- 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	Ropair	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 swollot 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



Tests Conducted	i: Hydrostatic Pneuma Test Pressure: Psig Component Design Pressur		nal Operating Pre   Test Temperat   Temperature:	ture: ° F	Other X No
). Remarks: None					i i
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We certify that	the statements made in this	Owner's Reno	rtere correct and	this repair COL	nforme
	the ASME Code, Section XI	Office of Lopes.		100000000000000000000000000000000000000	10
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Certificate Of A	uthorization No.: Not applicable	• • •	1 1 1 1	i i i	:
Expiration Date	Not Applicable			_	
Prepared By	Vuldet Such	Signed By	(1/1)	2/	i İ
Fiepared by	Kuldip Singh - Materials And Inspect			Materials And Ins	pection
Date	6122195	Date	6/22/95	1 1 1	i ·
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Vessel Inspecto	ors and the State of Washingt	ton <i>and employ</i>	<i>red by</i> Arkwright Mi	utual Insurance	e Company
(Factory Mutual E	Engineering Association) of Nor	wood, Massachu	isetts have inspec	ted the comp	onents
described in th	is Owner's Report during the	e period <u>5 7</u>	<u> </u>	6-61-7	5 and
	st of my knowledge and belie				
ASME Code, Se	sures described in this Own	ers Report in a	3CCOFGRACE WILL C	ne requireme	nis oi uie
	ecuon XI certificate neither the inspe	ector nor his en	nnlover makes an	v warrantv. e	xpressed or
implied, concer	ming the examinations and (	corrective mea	sures described i	in this Owner	's Report
Furthermore, n	either the inspector nor his	employer shall	be liable in any n	nanner for an	y personal 🦙
injury or prope	rty damage or a joss of any	kind arising fro	m or connected v	with this insp	ection
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1 - A .	poctor's Signature	. !	National Bo	oard, State, and E	ndorsements
Date 6	22-95				i
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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

- 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
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- 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





Tests Conducted: Hydrostatic Pneumatic Test Pressure: Psig Component Design Pressure: F		nal Operating Test Temp Temperatu	erature: ° F	-	Other	X	No
Remarks: None					!		
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CERTIFICA	TE OF COM	IPLIANCE			: ! : !		1
We certify that the statements made in this Ow	ner's Repor	t are correct	and this re	pair <i>CO</i>	nforms	<b>,</b>	i
to the rules of the ASME Code, Section XI Type Code Symbol Stamp: Not Applicable					İ		
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Kuldip Singh - Materials And Inspection	.   1	Mana	ger, Materials	And Ins	spection		
Date 8295	Date	\$2/1	5/95				
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I, the undersigned, holding a valid commission Vessel inspectors and the State of Washington a (Factory Mutual Engineering Association) of Norwoo described in this Owner's Report during the pe	a <i>nd employe</i> d, Massachus	ed by Arkwrigh setts <i>have ins</i>	t Mutual In:	suranc comp	e Comp conent	any	
state to the best of my knowledge and belief, the corrective measures described in this Owner's ASME Code, Section XI	he Owner ha	s performed	examinatio	ons an	d take		1
By signing this certificate neither the inspector implied, concerning the examinations and corr Furthermore, neither the inspector nor his emp	rective meas sloyer shall t	ures describ be liable in ar	ed in this ( ny manner	Owner for an	's Rep ny pers	ort.' onal	-
injury or property damage or a loss of any kind	l arising from	n or connect	ed with thi	s insp	ection	ı	I
Cel 7 Vans	_ Commissi	ons NB9	3/8 9	318W	I A.	NI	
Inspector's Signature	_		l Board, State			nents	-
Date August 16, 1995	. !	1 1 1			:		
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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

- 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





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to the rules of the ASME Code, Section XI		<u> </u>		1	- 1 - 1	• !	1	
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Kuldip Singh - Materials And Inspection	Signe	a	Man	ager, Mat	erials f	nd in	naction	
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Factory Mutual Engineering Association) of Norwo	ood, Mass	achusett	s have In	specte	d the	comp	onenta	
described in this Owner's Report during the p	period	<u>5-31</u>	<u>-95  </u>	to	<u> 3-2</u> 1	<u> - 9</u>	<u>5</u> .	and
state to the best of my knowledge and belief,								
corrective measures described in this Owner	's Repor	t in acco	ordance v	vith the	requi	reme	nts of	the 🗆
ASME Code, Section XI		i i	i i ı	i ı	1 1	- 1		
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Date: 7/10/95 Sheet: 1 of 1

**Unit: WNP-2** 



### 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)

- 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





	FORM NIS-2 OWNER'S REPORT FOR	REPAIRS OR REPLACEMEN	its (	Back)		1
8	Tests Conducted: Hydrostatic Pneumatic Test Pressure: Psig	Nominal Operating Pressure Test Temperature:   Output  Test Temperature:  Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperature: Output  Test Temperatur  Test Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Test Temperatur  Tes		] Other	X	Non
	Component Design Pressure: Psig	Temperature: OF	- - -	l   i		
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	CERTIFICATE C	OF COMPLIANCE		· [	1 1	١,
,	We certify that the statements made in this Owner's 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	s Report are correct and this re	place	ment <i>CON</i>	forms	
	Prepared By Pulotip Euis Sign	ned By	<u> </u>		·	
	Kuldip Singh - Materials And Inspection	Manager, Materials	And I	Inspection		
	Date S/2/85 Date	0/23/73			<del></del>	· .[
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3	CERTIFICATE OF INS	SERVICE INSPECTION				
	I, the undersigned, holding a valid commission isst Vessel inspectors and the State of Washington and of (Factory Mutual Engineering Association) of Norwood, Ma described in this Owner's Report during the period state to the best of my knowledge and belief, the Os corrective measures described in this Owner's Rep ASME Code, Section XI	employed by Arkwright Mutual In assachusetts have inspected the 6-/8-95 to 8-2 wher has performed examination in accordance with the required to the secondance with the requirement.	suran con 2 – 9 on <b>s</b> e ulren	ce Comp nponent s and take nents of	any s and i n i	
	By signing this certificate neither the inspector nor implied, concerning the examinations and corrective furthermore, neither the inspector nor his employed injury or property damage or a loss of any kind arise.	re measures described in this Ir shall be liable in any manner	Own for t	er's Rep any pers	ort. onal	
	Inspector's Signature  Date August 16, 1995	mmissions <u>NB93/S' 93/</u> National Board, Stat	e, and	Endorser		



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

- 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





8 Tes		ting Pressure emperature: 535° F rature: 575° F	<b>○</b> Other	· 🗀	None
9. Re	emarks: None		· i		
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	CERTIFICATE OF COMPLIANCE	E			
to Ti	Ve certify that the statements made in this Owner's Report are correct the rules of the ASME Code, Section XI Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable	ect and this repair	conform	<b>s</b>	
P		Managor, Materials And	Inspection		
D.	Date 8)2 95 Date 5/	15/95			
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	CERTIFICATE OF INSERVICE INSPE	CTION	. • .	1 1	
V (F	the undersigned, holding a valid commission issued by the Nation lessel inspectors and the State of Washington and employed by Ark Factory Mutual Engineering Association) of Norwood, Massachusetts have lescribed in this Owner's Report during the period 6-23-95	wright Mutual Insura inspected the co	ance Component	pany	
st cc A	tate to the best of my knowledge and belief, the Owner has perform corrective measures described in this Owner's Report in accordance ISME Code, Section XI	ned examinations e with the require	and take ements o	fthe	: 1
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D.		ational Board, State, s		ments	

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

- 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



Test Pressure: 1000 Psig Component Design Pressure:	.	al Operating Press Test Temperature Temperature: 575	535° F
Remarks: None			
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We certify that the statements made in this O to the rules of the ASME Code, Section XI	wner's Report	are correct and th	is repair conforms
Type Code Symbol Stamp: Not applicable	.   1		
Certificate Of Authorization No.: Not applicable	E i	1 1 1 1	and the second
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Kuldip Singh - Materials And Inspection		Manager, Mat	erials And Inspection
Date812195	Date :	8/15/55	•
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CERTIFICATE C			
I, the undersigned, holding a valid commission			
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Vessel Inspectors and the State of Washington (Factory Mutual Engineering Association) of Norwa		one nava inenacia:	
(Factory Mutual Engineering Association) of Norwo	ood, Massachus		
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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

- 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 Bullt	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Snubber Snubber	Pacific Scientific Pacific Scientific -	291 11862 ,	N/A N/A	PSA-10 PSA-10	1976 1981	Replaced Replacement	No No

- 7. Description Of Work Performed: Replaced snubber for support MSRV-5B-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





Tests Conducted: Hydrostatic Pneumatic Test Pressure: Psig Component Design Pressure:	Test Temperature: ° F
Remarks: None	
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	- · · · · · · · · · · · · · · · · · · ·
CERTIFICA	ATE OF COMPLIANCE
We certify that the statements made in this Over 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 - Materials And Inspection	Signed By Manager, Material And Inspection
Date 7 13 95	
•	
•	
I, the undersigned, holding a valid commission Vessel Inspectors and the State of Washington (Factory Mutual Engineering Association) of Norwood described in this Owner's Report during the postate to the best of my knowledge and belief, a corrective measures described in this Owner's ASME Code, Section XI By signing this certificate neither the Inspector Implied, concerning the examinations and contents.	the Owner has performed examinations and taken 's Report in accordance with the requirements of the or nor his employer makes any warranty, expressed or rrective measures described in this Owner's Report.
Injury or property damage or a loss of any kin	nployer shall be liable in any manner for any personal and arising from or connected with this inspection  Commissions 960 W N I
Inspector's Signature  Date Auly 13, 1995	National Board, State, and Endorsements