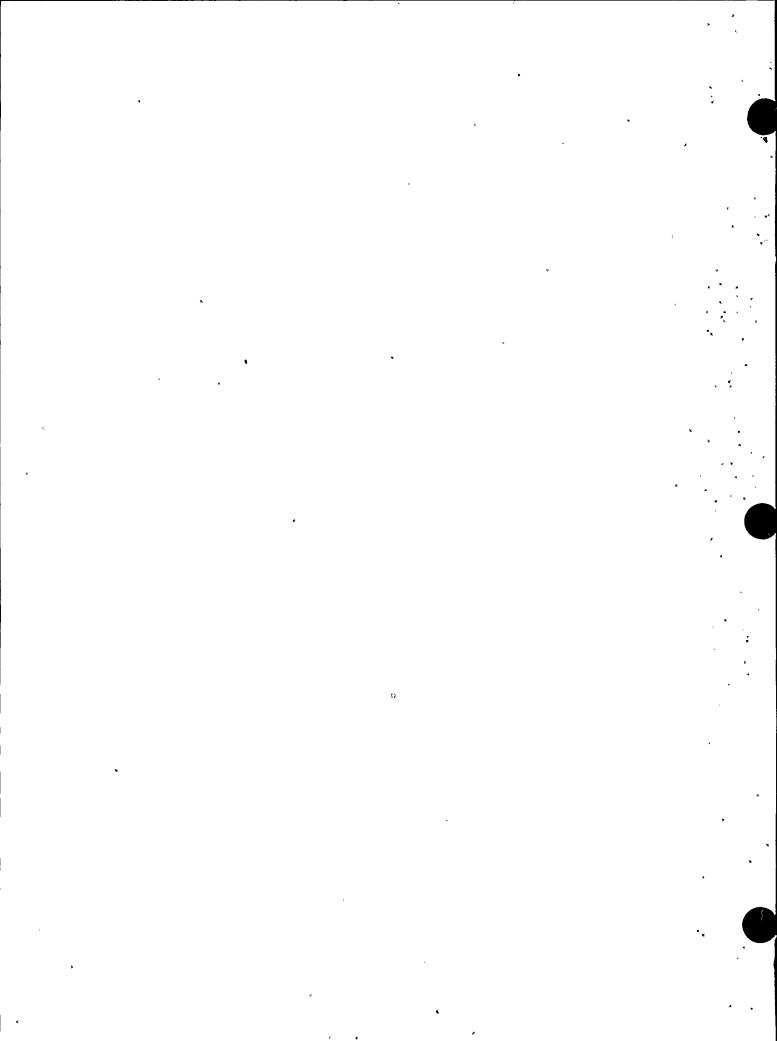


WNP-2 INSERVICE INSPECTION SUMMARY REPORT FOR REFUELING OUTAGE RF13

Spring, 1998





INSERVICE INSPECTION SUMMARY REPORT FOR REFUELING OUTAGE RF13

13. UCHANAMA AND AND

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:CBINSerial Number:T-45State No.:29936-84WNat'l Bd No.:8

	Prepared By:	DPR any	August 12, 1978
		ISI Engineer	Date
		Rulaip Sings	8/12/98
		Repair/Replacement Engineer	Date
	Reviewed &	Tom Sui for C.M. King	8/12/98
	Concurred	Supervisor, Materials and Welding	Date
	By:	of Uhle	8/13/98
	C	NDE Level III	Date
		OL Momer JEW	8/27/98
		Supervisor, Quality Services	Date
	Concurrence	M.M. Erotto	<u>8/177/98</u>
1		Authorized Nuclear Inservice Inspector	r Date

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Appendices

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- Α.
- NIS-1 Owner's Report for Inservice Inspection NIS-2 Owner's Report for Repairs and Replacements B.

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SUMMARY

WNP-2 has completed American Society of Mechanical Engineers Boiler and Pressure Vessel Code (ASME) Section XI examinations for the fourth refueling outage of the second inspection interval (thirteenth refuel cycle, RF13, Spring, 1998). Feedwater nozzle inner radius, core spray sparger and supply piping, and Generic Letter 88-01 augmented examinations were also completed during this outage.

EXAMINATION RESULTS

This report summarizes the results of inservice inspection (ISI) of ASME Section III, Code Class 1, 2, 3, and MC components and their supports performed at Washington Public Power Supply System (Supply System) Nuclear Plant No. 2 (WNP-2) between July 10, 1997 and June 13, 1998. Both General Electric (GE) and Supply System personnel performed the examinations. During this period, WNP-2 completed its thirteenth scheduled refueling outage, RF13. This outage is the fourth 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 and copies of the NIS-2 Owner's Report of Repair or Replacement in Appendix B.

Documentation supporting this summary report is located in the WNP-2 Files (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 Feedwater nozzle inner radius and bore region for NUREG 0619.

o Core spray sparger and supply piping.

ASME SECTION XI EXAMINATIONS

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

A summary and the items examined for ASME Section XI requirements are included on the NIS-1 Owner's Data Report for Inservice Inspection. A copy is included as Appendix A.

AUGMENTED EXAMINATIONS

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

During refuel outage RF9 (Spring, 1994) WNP-2 performed the mechanical stress improvement process on 25 category C welds. Eight of the welds were reinspected in accordance with Generic Letter 88-01 during refuel outage RF10 (Spring, 1995). The remaining seventeen Generic Letter 88-01 category C welds were examined this refueling outage in accordance with Supply System letter GO2-97-029, P.R. Bemis to NRC, "WNP-2, Operating License NPF-21, Request for Extension of Generic Letter 88-01 Category C Examination Interval", dated February 19, 1997 and Nuclear Regulatory Commission (NRC) letter, "Request for an Extension of the Examination Interval for IGSCC Category C Welds for Washington Nuclear Project No. 2 (WNP-2) (TAC No. M98036)", dated May 23, 1997. No IGSCC (intergranular stress corrosion cracking) was detected in the welds examined. The following welds were examined:

Identification No.	Description	Diagram No.	Pg.	Hethod	Section XI Examination
12LPCI(1)A-6	SE TO NOZZLE	RHR-101	•	VOL	yes
12LPCI(1)B-6	SE TO NOZZLE	RHR-102		VOL	yes
12LPCI(1)C-6	SE TO NOZZLE	RHR-103		VOL	-
12RRC(1)-H2A-6	SE TO NOZ	RRC-101	08	VOL	yes
12RRC(1)-N2B-6	SE TO NOZ	RRC-101	07	VOL	yes
12RRC(1)-N2C-6	SE TO NOZ	RRC-101	06	VOL	·
12RRC(1)-N2D-6	SE TO NOZ	RRC-101	05	VOL	
12RRC(1)-N2E-6	SE TO NOZ	RRC-101	04	- VOL	
12RRC(1)-N2F-6	SE TO NOZ	RRC-102	08	VOL	
12RRC(1)-N2G-6	SE TO NOZ	RRC-102	07	VOL	
12RRC(1)-N2H-6	SE TO NOZ	RRC-102	06	VOL	
12RRC(1)-N2J-6	SE TO NOZ	RRC-102	05	VOL	
12RRC(1)-N2K-6	SE TO NOZ	RRC-102	04	VOL	
24RRC(2)A-1	NOZ TO SE	RRC-101	01	VOL	yes
24RRC(2)B-1	NOZ TO SE	RRC-102	01	VOL	•
4JP(NZ)A-1	N-9 NZ-SE @ 105	RPV-101	-	VOL	ije.
4JP(NZ)B-1	N9 NZ-SE @ 285	RPV-101		VOL	

Feedwater Nozzle Inner Radius (ISI Program Plan Section 6.2.3)

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

The feedwater spargers were visually examined. Small crack-like indications were found on several of the flow holes. Engineering evaluation concluded that the flow hole cracking will not have an adverse impact on the functional performance of the feedwater spargers, and continued operation for at least 24 months was justified.

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

A visual examination of the core spray sparger and supply piping was performed per the requirements of IE Bulletin 80-13, "Cracking in Core Spray Sparger". No unacceptable indications were observed.

Snubber Testing (ISI Program Plan section 6.2.2)

An initial sample of thirty-seven (37) snubbers was selected from the WNP-2 general population of 393 safety-related snubbers. These snubbers were randomly selected by computer subroutine 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 Licensee Controlled Specification Basis SR 1.7.3.1.e.

Testing of snubbers was performed using portable test devices called "Validators", supplied by the snubber manufacturer. There were no unacceptable results. MD-1285-14C and MS-91(W) had drag greater than 2%, but less than 5 % and were replaced due to service life monitoring considerations. MSRV-4B-3 and RWCU-1C-3(E) had drag less than 2%, but were replaced as a preventive maintenance activity. The snubbers tested are listed on the NIS-1 Owner's Report of Inservice Inspection form in Appendix A.

NON-REGULATORY AUGMENTED EXAMINATIONS

Additional Reactor Pressure Vessel (RPV) internal visual examinations were performed on jet pump sensing lines, jet pump adjusting screws and incore dry tubes with the guidance contained in General Electric 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 RF9 (Spring, 1994), a crack was found in jet pump 18 sensing line. The crack was reexamined during RF13. There was no noticeable change from RF9 data. No indications were found in the other nineteen lines.

A reinspection of the jet pump adjusting screws was performed to document any gaps between the set screw and inlet mixer. Jet pump 9 had a gap on vessel side adjusting screw. Engineering evaluation determined that it was acceptable to operate with the gap for two 12 month operating cycles.

During the inspection for jet pump adjusting screw gaps, two handles from auxiliary wedges were found on the annulus floor plate. Engineering evaluation determined that it was acceptable to operate with the wedges missing their handles. The handles were removed from the RPV.

All incore dry tubes were visually examined. No unacceptable indications were noted.

REPAIRS AND REPLACEMENTS

Six (6) significant ASME Section XI repair or replacement activities were performed during RF13 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 10, 1997 and June 13, 1998 are provided in Appendix B.

- 1) Main Steam Relief Valves (MSRVs)
- Refurbished ten (10) main steam relief valves. nine (9) of these MSRVs were refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartenburg, SC 29301. The refurbished work was performed in accordance with NWS Technologies, LLC VR and NR programs. The tenth valve was refurbished by Supply System. Replaced ten (10) MSRVs.
 - 2) Local Power Range Monitoring (LPRM)

Replaced nine (9) Local Power Range Monitoring (LPRM) incore assemblies.

3) Relief Valves

Replaced relief valves including SLC-RV-29A, SLC-RV-29B, RHR-RV-1A, and RHR-RV-5.

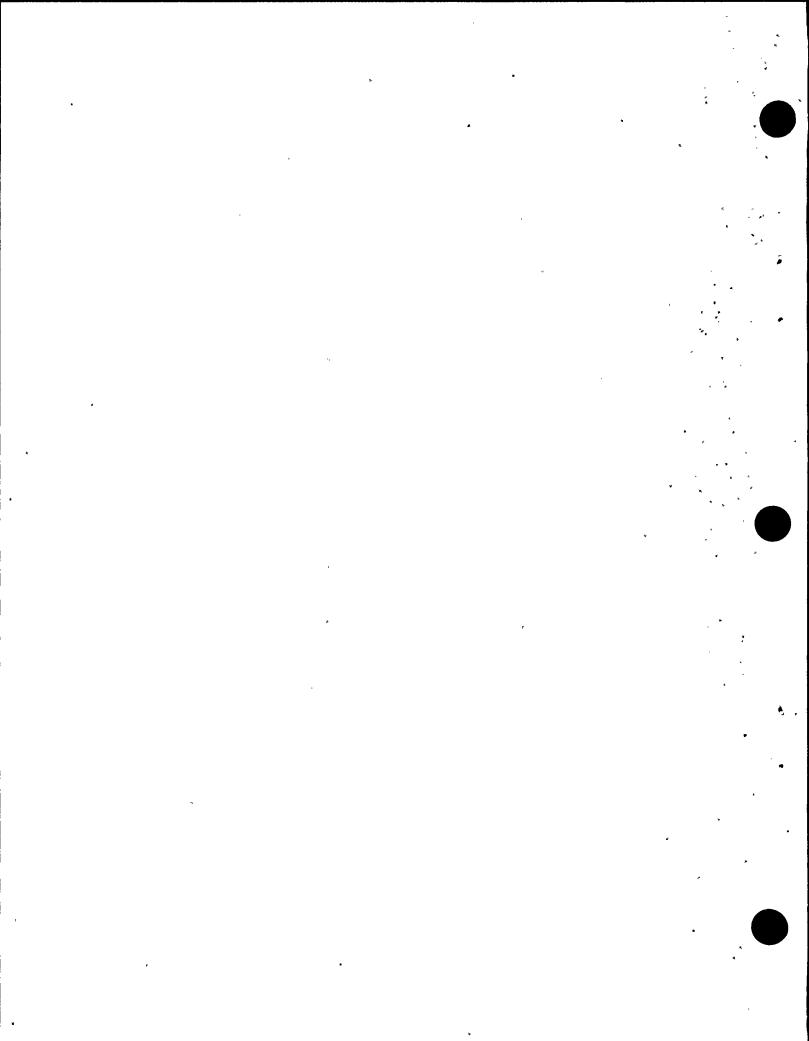
4) Valves

Replaced valves including RRC-V-20, PSR-V-X77A/1, CAC-V-58A, SW-V-49.

5) Snubbers

Replaced fifteen (15) snubbers

- 6) Emergency Core Cooling System (ECCS) Suction Strainers
- Replaced Emergency Core Cooling System (ECCS) Suction Strainers for RHR-P-2A, RHR-P-2B, RHR-P-2C, LPCS-P-1, and HPCS-P-1 pump suction piping.



APPENDIX A

NIS-1 Owner's Report for Inservice Inspection

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

As required by the Provisions of the ASME Code Rules

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

Component or Appurtenance	Manufacturer or Installer	Manufacturer • or Installer Serial No.	State or Province No.	National Board No.
RPV	CBIN Nuclear Company	T-45	29936-84W	CBIN-8
Large Bore Pipe	Bechtel - the piping examined is listed on pages 3-12 of this data report	NA	NA .	NA.
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FORM NIS-1 (back)

- 8. Examination Dates <u>7/10/97</u> to <u>6/13/98</u>
- 9. Inspection Period Identification _____ 10. Inspection Interval Identification ____
- 11. Applicable Edition of Section XI _____1989 ____ Addenda _____
- 12. Date/Revision of Inspection Plan _____ December, 1994, Revision 0, change notices through 0-F
- 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 31% of the examinations required for this interval have been completed. See pages 3-12 of this data report for a listing of examinations and tests completed during this refueling outage. Continued on page 3.
- 14. Abstract of Results of Examinations and Tests. All examinations and tests were acceptable except the following:

1) Two CRD flanges one LPRM flange, and PSR-V-77A/1 flange were found leaking during the post outage Class 1 leakage test; 2) Safe-end to nozzle weld 24RRC(2)A-1 had indication requiring evaluation under IWB-3600. All snubber functional tests were acceptable.

15. Abstract of Corrective Measures:

1) Relief Request 2ISI-06 and 2ISI-07 were implemented for the leaking flanges. The CRD flange leaks were evaluated for corrective action. They were accepted based on the leakage decreasing over time. The LPRM and PSR-V-77A/1 flanges were tightened to stop the leaks. 2) IWB-3600 evaluation of weld 24RRC(2)A-1 concluded it was acceptable for continued service without repair.

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

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

TR

Date_2/10_1998Signed_Washington Public Power Supply System By Ton Cu. Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of <u>Washington</u> and employed by <u>Arkwright Mutual Insurance Company of Waltham</u>, <u>Massachusetts</u> have inspected the components described in this Owner's Data Report during the period <u>7/10/97</u> to <u>6/13/98</u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

Inspector's Signature

Commissions <u>7486W/7486 NISB IS</u> National Board, State, Province, and Endorsements

1998

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

Snubber Functional Testing - IWF-5000

ř	Snubber	Mark Number	Position	Description	Serial No.	<u>Test_Date</u>		
	FPC-908	IN .	W	PSA-1 SNUBBER	.22348	4/20/98		
	HPCS-92		Ŵ	PSA-3 SNUBBER	3883	4/20/98		
	HD-1285		ÜA	PSA-1/4 SNUBBER	19886	4/23/98		
4	HD-74		UA	PSA-1 SNUBBER	360	4/23/98		
	MS-114		S	PSA-10 SNUBBER	9921	4/23/98		
	MS-1368	-12	UA	PSA-1/2 SNUBBER	4013	4/27/98		
	MS-2619	-45	UA .	PSA-1/4 SNUBBER	28450	4/28/98		*
	MS-91		W	PSA-3 SNUBBER	2793	4/22/98		
	MSRV-1A	-3	UA	PSA-10 SNUBBER	11857	4/24/98		
	MSRV-1B	-2	UA	PSA-10 SNUBBER	13035	4/24/98		
	MSRV-1C	-2	UA	PSA-35 SNUBBER	10566	4/28/98		
	MSRV-3B	-3	UA	PSA-10 SNUBBER	13050	4/29/98		
	MSRV-4B	-3	UA	PSA-10 SNUBBER	11863	4/24/98		
	RCIC-1C	-9	UA	PSA-10 SNUBBER	7786	4/27/98		
	RCIC-94	8N	¥	PSA-3 SNUBBER	215	4/21/98		
	RFW-146		SW	PSA-10 SNUBBER	131	4/28/98		
	RHR-100	ОН	UA	PSA-3 SNUBBER	3931	4/21/98		
	RHR-102	1N	W	PSA-3 SNUBBER	3847	4/21/98		
-	RHR-200		UA	PSA-1/2 SNUBBER	2131	4/22/98		
	RHR-235		UA	PSA-10 SNUBBER	1462	4/21/98		
	RHR-256		UA	PSA-35 SNUBBER	10730	4/22/98		
	RHR-274		UA	PSA-3 SNUBBER	2590	4/22/98		
	RHR-276		N	PSA-3 SNUBBER	2575	4/22/98		
	RHR-287		UA	PSA-35 SNUBBER	8690	4/28/98		
	RHR-326		E	PSA-1/4 SNUBBER	392	4/21/98		
	RHR-414		S	PSA-3 SNUBBER	2586	4/20/98		
	RHR-563		N	PSA-1 SNUBBER	361	4/22/98		
	RHR-60		UA	PSA-3 SNUBBER	2369	4/20/98		
	RHR-9031		UA	PSA-3 SNUBBER	3926	4/20/98		
	RHR-906	N	SE	PSA-10 SNUBBER	293	4/20/98		
	RHR-9221	N	UA	PSA-1 SNUBBER	631	4/21/98		
	RHR-9591	N	SW	PSA-3 SNUBBER	2360	4/20/98		
	RRC-SA-3	3	UA	PSA-100 SNUBBER	614	4/27/98		
	RRC-SB-		UA	PSA-35 SNUBBER	4191	4/30/98		
	RWCU-1C	-3	E	PSA-3 SNUBBER	3946	4/28/98		
3	SGT-11		BM	PSA-10 SNUBBER	7787	4/21/98		
	VR-901N		UA	PSA-1/2 SNUBBER	4024	4/27/98		
	KEY							
' •	BM	Bottom	NE No	rtheast	SE	Southeast	UA	Single snubber
	E	East		rthwest	S	South	Ŵ	West
	Ň	North		uthwest	TP	Тор		
						-		

Notes to snubber functional testing

All snubber functional tests were acceptable. None of the tested snubbers require testing at the next refueling outage. Testing results are documented in plant procedure TSP-SNUBBER-R702 dated 5/18/98



1.	Owner: Washington Public Power Supply System, 3000 George Washington Way, PO Box 968, Richland,										
, 2.	Washington (Plant: WN	99352 VP-2, Hanford Reserva	tion Bonton Co		Washingt			•	•		
			alon, Benton Co	ounty,	wasningu	n		•			
3.		IP-2					•				
4.	Owner Certificate of		NA								
5.	Commercial Service		4					*	•		
6.	National Board Num	ber: NA							*		
13.	Abstract of Examination	ations and Tests (cor	tinued):								
	Identification No.	Description	Diagram No.	Pg.	Hethod	Report No.	Date	Results(1)	 		
	nation Category: B-A Number: B1.21								-		
	AH	TOP HD DOL PLT	RPV-102 -		VOL	R-R13-G19	5/15/98	A ' ≜			
Item I	iumber: B1.40						•				
	AG	TOP HD-FLG WELD	RPV-102		SUR	2RPM-001	5/04/98	A **			
		IVE NUTED WELD	AF F IVG		VOL	R-R13-G18	5/15/98		r		
_											
	nation Category: B-D lumber: B3.100							*			
	N1-0-IR	RRC NZ-IR @ 0	RPV-101		VOL	R-R13-G02	5/15/98	A			
	N2-30-IR	RRC NZ-IR @ 30	RPV-101		VOL	R-R13-G04	5/15/98	Ä			
	N2-60-IR	RRC NZ-IR @ 60	RPV-101		VOL	R-R13-G06	5/15/98	A `			
	N3-72-IR	MS NZ-IR @ 72	RPV-101		VOL	R-R13-G08	5/15/98	A	-		
	N4-90-IR	FW NZ-IR @ 90	RPV-101		VOL	2RPU-006	4/24/98	Α	8		
	N5-120-IR N6-135-IR	LPCS NZ-IR a120 LPCI NZ-IR a135	RPV-101		VOL	R-R13-G23	5/15/98	A .	-		
	N6-45-IR	LPCI NZ-IR also	RPV-101 RPV-101		VOL VOL	R-R13-G14 R-R13-G12	5/13/98 5/15/98	A			
	N7-IR	HD SP NZ-HD IR	RPV-102		VOL	R-R13-G20	5/15/98	A Š			
Item N	lumber: B3.90										
	N1-0	RRC NZ-V @ 0	DDV-101		Voi	D-017-001	E /4E /00	•			
	N2-30	RRC NZ-V a 0 RRC NZ-V a 30	RPV-101 RPV-101		VOL VOL	R-R13-G01 R-R13-G03	5/15/98 5/15/98	A ·			
	N2-60	RRC NZ-V a 50	RPV-101		VOL	R-R13-G05	5/15/98	A A			
	N3-72	MS NZ-V @ 72	RPV-101		VOL	R-R13-G07	5/15/98	Â			
	N4-30	FW NZ-V @ 30	RPV-101		VOL	R-R13-G10	5/15/98	Ä			
	N4-90	FW NZ-V @ 90	RPV-101	•	VOL	R-R13-G09	5/15/98	Α,			
	N5-120	LPCS NZ-V a 120	RPV-101		VOL	R-R13-G22	5/15/98	A			
	N6-135	LPCI NZ-V a 135	RPV-101		VOL	R-R13-G13	5/15/98	A	-		
	N6-45 N7	LPCI NZ-V @ 45 HD SP NZ-HD TOP	RPV-101 RPV-102		VOL VOL	R-R13-G11 R-R13-G17	5/15/98 5/15/97	A 'A			
	ation Category: B-F umber: B5.10				VOL		57 (57 71	· .			
				~~	a 15	01 PP 000	/				
	10LPCS(1)-4	SE TO NOZZLE	LPCS-101	02	SUR	2LPP-002	4/23/98	A			
	12LPCI(1)A-6	SE TO NOZZLE	RHR-101		SUR	2RHP-006 R-R13-017	4/29/98	A ·	•		
	12LPCI(1)B-6	SE TO NOZZLE	RHR-102		VOL SUR	2RHP-004	5/01/98 4/24/98	A A			
		JL IV NULLLE	NUN" IVE		VOL	R-R13-004	4/30/98	A			
	12RRC(1)-N2A-6	SE TO NOZ	RRC-101	08	SUR	2RRP-009	4/25/98	Â			
	-		·		VOL	R-R13-024	5/04/98	Â			
	12RRC(1)-N2B-6	SE TO NOZ	RRC-101	07	SUR	2RRP-010	4/25/98	Α .			
	D /222/01/1			•	VOL	R-R13-025	5/06/98	Α '			
	24RRC(2)A-1	NOZ TO SE	RRC-101	01	SUR	2RRP-012	4/29/98	A			
	24RRC(2)B-1	NOZ TO SE	RRC-102	01	VOL VOL	R-R13-031 R-R13-030	5/14/98 5/09/98	R(6)	•		
		NV6 10 36	NNU" IVG		101	V-V17-030	57 97 90	A	-		
item N	umber: 85.130										
	12LPCI(1)A-5	SE EXT TO SE	RHR-101		SUR	2RHP-005	4/29/98	A			
					VOL	R-R13-018	5/03/98	A			

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

13. Abstract of Examinations and Tests (continued):

Identification No.	Description	Diagram No.	Pg.	Hethod	Report No.	Date	Results(1)
12LPCI(1)B-5	SE EXT TO SE	RKR-102		SUR VOL	2RHP-003 R-R13-011	4/24/98 4/30/98	A A
Examination Category: B-G-1 Item Number: B6.10				VOL		4730798	Λ
RPV NUT 36-1-15A	RPV NUT	RPV-101		sur Vol	2RPM-002 2RPU-007	5/06/98 5/06/98	A .
RPV NUT 36-1-16A	RPV NUT	RPV-101		SUR	2RPM-002 2RPU-007	5/06/98 5/06/98	Â
RPV NUT 36-1-1A	RPV NUT	RPV-101		SUR	2RPM-002 2RPU-007	5/06/98 5/06/98	Â
RPV NUT 36-1-22A	RPV NUT	RPV-101		SUR	2RPU-002 2RPU-007	5/06/98 5/06/98	Â
RPV NUT 36-1-23A	RPV NUT	RPV-101		SUR VOL	2RPH-002 2RPU-007	5/06/98 5/06/98	Â
RPV NUT 36-1-29A	RPV NUT	RPV-101		SUR VOL	2RPM-002 2RPU-007	5/06/98 5/06/98	A A
, RPV NUT 36-1-2A	RPV NUT	RPV-101		SUR VOL	2RPM-002 2RPU-007	5/06/98 5/06/98	Ä
RPV NUT 36-1-30A	RPV NUT	RPV-101		SUR VOL	2RPM-002 2RPU-007	5/06/98 5/06/98	Ă A
RPV NUT 36-1-36A	RPV NUT	RPV-101		SUR VOL	2RPM-002 2RPU-007	5/06/98 5/06/98	A A
RPV NUT 36-1-37A	RPV NUT	RPV-101		SUR VOL	2RPM-002 2RPU-007	5/06/98 5/06/98	A A
RPV NUT 36-1-43A	RPV NUT	RPV-101		sur Vol	2RPM-003 2RPU-007	5/06/98 5/06/98	A A
RPV NUT 36-1-44A	RPV NUT	RPV-101		sur Vol	2RPM-003 2RPU-007	5/06/98 5/06/98	A A
RPV NUT 36-1-50A	RPV NUT	RPV-101		sur Vol	2RPM-003 2RPU-007	5/06/98 5/06/98	A
RPV NUT 36-1-51A	RPV NUT	RPV-101		sur Vol	2RPM-003 2RPU-007	5/06/98 5/06/98	A A
RPV NUT 36-1-57A	RPV NUT	RPV-101		sur Vol	2RPM-003 2RPU-007	5/06/98 5/06/98	A A

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

13. Abstract of Examinations and Tests (continued):

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Identification No.	Description	Diagram No.	Pg.	Nethod	Report No.	Date '	Results(1)
RPV NUT 36-1-58A	RPV NUT	RPV-101		SUR	2RPM-003	5/06/98	A
				VOL	2RPU-007	5/06/98	A
RPV NUT 36-1-64A	RPV NUT	RPV-101		SUR	2RPM-003	5/06/98	A
	· •			VOL	2RPU-007	5/06/98	A
RPV NUT 36-1-65A	RPV NUT	RPV-101		SUR	2RPM-003	5/06/98	5. A
				VOL	2RPU-007	5/06/98	, A
RPV NUT 36-1-71A	RPV NUT	RPV-101		SUR	2RPM-003	5/06/98	•A
				VOL	2RPU-007	5/06/98	Ā
RPV NUT 36-1-72A	· RPV NUT	RPV-101		SUR	2RPM-003	5/06/98	Â
				VOL	2RPU-007	5/06/98	À,
RPV NUT 36-1-8A	RPV NUT	RPV-101		SUR	2RPH-002	5/06/98	Ā
				VOL	2RPU-007	5/06/98	. A
RPV NUT 36-1-9A	RPV NUT	RPV-101		SUR	2RPM-002	5/06/98	
	REV ROI	AF V - 101		VOL	2RPU-007	5/06/98	A
				VOL	2870-007	5/00/90	Α
Item Number: B6.20							a 8
recia number. D0.20							•
RPV STUD 35-1-15A	RPV STUD	RPV-101		VOI	2001-00/		,
				VOL	2RPU-004	4/20/98	A
RPV STUD 35-1-16A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	, A
RPV STUD 35-1-1A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	. A
RPV STUD 35-1-22A	RPV STUD	RPV-101		VOL.	2RPU-004	4/20/98	٨
RPV STUD 35-1-23A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	A .
RPV STUD 35-1-29A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	- A
RPV STUD 35-1-2A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	A
RPV STUD 35-1-30A	RPV STUD	RPV-101		VOL	2ROU-004	4/20/98	Α
RPV STUD 35-1-36A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	Α
RPV STUD 35-1-37A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	A
RPV STUD 35-1-43A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	A
RPV STUD 35-1-44A	RPV STUD	RPV-101		VOL.	2RPU-004	4/20/98	A
RPV STUD 35-1-50A	RPV STUD	RPV-101		VOL	2RPU-004	. 4/20/98	Α
RPV STUD 35-1-51A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	Ā
RPV STUD 35-1-64A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	Â
RPV STUD 35-1-65A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	. A
RPV STUD 35-1-71A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	Â
RPV STUD 35-1-72A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	Â
RPV STUD 35-1-8A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	-
RPV STUD 35-1-9A	RPV STUD	RPV-101		VOL	2RPU-004	4/20/98	A
RIV 5100 55-1-7A	KF4 5100	KFV-101		VOL	2870-004	4/20/90	A
Item Number: B6.30							
RPV STUD 35-1-57A	RPV STUD	RPV-101		SUR	2RPM-004	5/06/98	
KFV 3100 33-1-37M	RP4 3100	KP4-101					A
RPV STUD 35-1-58A		RPV-101		VOL	2RPU-004	4/20/98	Å
KPV 5100 33-1-30A	RPV STUD	KPV-101		SUR	2RPM-004	5/06/98	A
				VOL	2RPU-004	4/20/98	A
		-					*
Item Number: B6.40							
I Cell Ruhbel I DD.40							
RPV THREADS	THREADS-RPV FLG	RPV-101		VOL	2001-005	1 120 100	•
KFV INKERDS	INKEAUS-KPV PLU	KPV-101		VOL	2RPU-005	4/20/98	A
Item Number: 86.50							
	۰						
RPV WASHER 35-1-15A	RPV WASHER	DDV-101		VT-1	2001-009	5 (06 109	
		RPV-101		VT-1	2RPV-008	5/06/98	A
RPV WASHER 35-1-16A	RPV WASHER	RPV-101		VT-1	2RPV-008	5/06/98	A
RPV WASHER 35-1-1A	RPV WASHER	RPV-101		VT-1	2RPV-008	5/06/98	A .
RPV WASHER 35-1-22A	RPV WASHER	RPV-101		VT-1	2RPV-008	5/06/98	A

Notes are on page 12

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 (continued): Identification No. Description Results(1) Diagram No. Pg. Hethod Report No. Date RPV WASHER 35-1-23A **RPV WASHER RPV-101 VT-1** 2RPV-008 5/06/98 A RPV WASHER 35-1-29A **RPV WASHER** RPV-101 VT-1 2RPV-008 5/06/98 A RPV WASHER 35-1-2A **RPV WASHER RPV-101 VT-1** 2RPV-008 ·5/06/98 ٨ **RPV WASHER** RPV WASHER 35-1-30A **RPV-101** 2RPV-008 VT-1 5/06/98 A RPV WASHER 35-1-36A **RPV WASHER RPV-101** VT-1 2RPV-008 5/06/98 A RPV WASHER 35-1-37A **RPV WASHER RPV-101** VT-1 2RPV-008 5/06/98 A RPV WASHER 35-1-43A **RPV WASHER RPV-101 VT-1** 2RPV-008 5/06/98 A RPV WASHER 35-1-44A **RPV WASHER RPV-101 VT-1** 2RPV-008 5/06/98 A 2RPV-008 **RPV WASHER 35-1-50A RPV WASHER RPV-101 VT-1** 5/06/98 A RPV WASHER 35-1-51A **RPV WASHER RPV-101 VT-1** 2RPV-008 5/06/98 A RPV WASHER 35-1-57A **RPV WASHER RPV-101 VT-1** 2RPV-008 ·5/06/98 A 2RPV-008 RPV WASHER 35-1-58A **RPV WASHER VT-1** A **RPV-101** 5/06/98 **RPV WASHER** RPV WASHER 35-1-64A **RPV-101 VT-1** 2RPV-008 5/06/98 A 2RPV-008 RPV WASHER 35-1-65A **RPV WASHER RPV-101** VT-1 5/06/98 A RPV WASHER 35-1-71A **VT-1** 2RPV-008 **RPV WASHER RPV-101** 5/06/98 A RPV WASHER 35-1-72A **RPV WASHER RPV-101** VT-1 2RPV-008 5/06/98 A **RPV WASHER 35-1-8A RPV WASHER RPV-101 VT-1** 2RPV-008 5/06/98 A RPV WASHER 35-1-9A **RPV WASHER** 2RPV-008 **RPV-101** VT-1 5/06/98 A Examination Category: B-G-2 Item Number: 87.50 2RIV-006 6RCIC(1)-44BD FLANGE BOLTING RCIC-102 03 **VT-1** 5/14/98 A Item Number: B7.70 MS-RV-1B-BLT VALVE BOLTING **MS-102 VT-1** 2HSV-095 4/24/98 01 A(2) **MS-RV-1D-BLT** VALVE BOLTING HS-104 01 VT-1 2HSV-096 4/24/98 A(2) MS-RV-2A-BLT VT-1 **MS-101** VALVE BOLTING 01 2HSV-097 4/24/98 A(2) MS-RV-2C-BLT VALVE BOLTING **HS-103** 01 **VT-1** 2HSV-093 4/23/98 A(2) **MS-RV-2D-BLT** VALVE BOLTING MS-104 01 **VT-1** 2HSV-121 5/08/98 A(2) MS-RV-3A-BLT VALVE BOLTING MS-101 01 VT-1 2HSV-118 5/06/98 A(2) MS-RV-3B-BLT VALVE BOLTING MS-102 01 VT-1 2HSV-111 5/01/98 A(2) / MS-RV-3D-BLT VALVE BOLTING **HS-104** 01 **VT-1** 2HSV-091 4/24/98 A(2) MS-RV-4B-BLT VALVE BOLTING **HS-102** 01 **VT-1** 2HSV094 4/24/98 A(2) 4/29/98 MS-RV-5B-BLT VALVE BOLTING **HS-102** 01 VT-1 2HSV-107 A(2) Examination Category: B-J Item Number: 89.11 10LPCS(1)-1 ELL TO PIPE LPCS-101 02 SUR 2LPH-004 4/23/98 A VOL R-R13-004 4/27/98 A 10LPCS(1)-2 PIPE TO SE EXT LPCS-101 02 SUR 2LPH-004 4/23/98 A VOL R-R13-005 4/27/98 A 12RRC(1)-N2A-4 PIPE TO SE RRC-101 08 SUR 2RRP-009 4/25/98 A VOL R-R13-023 5/05/98 A 12RRC(1)-N2B-4 PIPE TO SE RRC-101 07 SUR 2RRP-010 4/25/98 A VOL R-R13-026 5/07/98 A 20RRC(6)-8 PIPE TO VALVE 2RRP-008 RRC-105 SUR 4/25/98 A VOL R-R13-013 5/01/98 R

03

SUR

VOL

2RIM-008

R-R13-012

4/27/98

5/01/98

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RCIC-102

FLG TO NOZZLE

Notes are on page 12

6RCIC(1)-45

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1.	Owner: Washington P Washington 9		System, 3000 Ge	orge \	Washingto	on Way, PO B	ox 968, Rid	chland,	
. 2.	-	P-2, Hanford Reserva	ation, Benton Co	untv.	Washingto	on			
3.	Plant Unit: WN								
4.	Owner Certificate of	_	NA						
5.	Commercial Service I								
6.	National Board Numb		0 7						
0.	National Doard Numb	er: NA	•						
13.	Abstract of Examina	tions and Tests (co	ntinued):						
	Identification No.	Description	Diagram No.	Pg.	Hethod	Report No.	Date	Results(1)	
	ation Category: B-K-1 umber: B10.10		r						
	RRC-HB-1(W)	4 WELDED LUGS	RRC-102	01	SUR	2RRP-011	4/27/98	A	
Examina Item Nu	ation Category: B-N-1 umber: B13.10						,		
	JP RISER BRACE	JP RISER BRACE	RPV-101		VT-1	2RPV-010	5/09/98	A	
	RPV INTERIOR	RPV INTERIOR	RPV-101		VT-3	2RPV-009	5/09/98	A	
					VT-3	2RPV-010	5/09/98	A	
Examina Item Nu	ation Category: B-P umber: B15.10								
	RPV-PB-101(L)	LK PRES BNDRY	RPV-101		VT-2	2012-98	5/31/98	A	
	RPV-PB-102(L)	LK PRES BNDRY	RPV-102		VT-2	2VT2-98	5/31/98	.R(4,5)	
Item Nu	mber: B15.50								
	HPCS-PB-101(L)	LK PRES BNDRY	HPCS-101		VT-2	2VT2-98	5/31/98	A	
	LPCS-PB-101(L)	LK PRES BNDRY	LPCS-101		VT-2	2012-98	5/31/98	Α	
	MS-PB-101(L)	LK PRES BNDRY	MS-101		VT-2	2VT2-98	5/31/98	A	1
	MS-PB-102(L) MS-PB-103(L)	LK PRES BNDRY LK PRES BNDRY	MS-102 MS-103		VT-2 VT-2	2VT2-98	5/31/98	A	
	MS-PB-104(L)	LK PRES BNDRY	MS-104		VT-2	2VT2-98 2VT2-98	5/31/98 5/31/98	A A	
	MS-PB-105(L)	LK PRES BNDRY	HS-105		VT-2	2VT2-98	5/31/98	Â	
	MS-PB-106(L)	LK PRES BNDRY	HS-106		VT-2	2VT2-98	5/31/98	Ä	
	RCIC-PB-101(L)	LK PRES BNDRY	RCIC-101		VT-2	2VT2-98	5/31/98	A	
	RCIC-PB-102(L)	LK PRES BNDRY	RCIC-102		VT-2	2712-98	5/31/98	A	
	RFW-PB-101(L)	LK PRES BNDRY	RFW-101	r	VT-2	2VT2-98	5/31/98	A	
	RFW-PB-102(L) RHR-PB-101(L)	LK PRES BNDRY	RFW-102		VT-2	2VT2-98	5/31/98	A	
	RHR-PB-102(L)	LK PRES BNDRY	RHR-101		VT-2	2VT2-98	5/31/98	A	
	RHR-PB-103(L)	LK PRES BNDRY LK PRES BNDRY	RHR-102 RHR-103		VT-2 VT-2	2VT2-98 2VT2-98	5/31/98 5/31/98	A A	
	RHR-PB-104(L)	LK PRES BNDRY	RHR-104		VT-2	2VT2-98	5/31/98	Ä	
	RHR-PB-105(L)	LK PRES BNDRY	RHR-105		VT-2	2VT2-98	5/31/98	Â	
	RHR-PB-106(L)	LK PRES BNDRY	RHR-106		VT-2	2VT2-98	5/31/98	A	
	RRC-PB-101(L)	LK PRES BNDRY	RRC-101		VT-2	2VT2-98	5/31/98	A	
	RRC-PB-102(L) RRC-PB-104(L)	LK PRES BNDRY	RRC-102		VT-2	2VT2-98	5/31/98	A	
	RRC-PB-105(L)	LK PRES BNDRY LK PRES BNDRY	RRC-104 RRC-105		VT-2 VT-2	2VT2-98 2VT2-98	5/31/98	Å	
	RRC-PB-105(L)	LK PRES BNDRY	RRC-105		VT-2	2VT2-98	5/31/98 5/31/98	A A	
	RRC-PB-107(L)	LK PRES BNDRY	RRC-107		VT-2	2VT2-98	5/31/98	Â	
1	RRC-PB-108(L)	LK PRES BNDRY	RRC-108		VT-2	2VT2-98	5/31/98	Â	
	RRC-PB-109(L)	LK PRES BNDRY	RRC-109		VT-2	2VT2-98	5/31/98	Â	
	RRC-PB-110(L)	LK PRES BNDRY	RRC-110		VT-2	2VT2-98	5/31/98	Â	
	RRC-PB-111(L)	LK PRES BNDRY	RRC-111		VT-2	2VT2-98	5/31/98	A	
	RWCU-PB-101(L) SLC-PB-101(L)	LK PRES BNDRY LK PRES BNDRY	RWCU-101 SLC-101		VT-2 VT-2	2VT2-98 2VT2-98	5/31/98 5/31/98	A	
Item Num	mber: B15.60								
	RRC-P-1A-BDY(L)	LK PRES BNDRY	RRC-103		VT-2	2VT2-98	5/31/98	A	
	RRC-P-1B-BDY(L)	LK PRES BNDRY	RRC-103		VT-2	2VT2-98	5/31/98	Ā	
	RC-PB-103(L)	LK PRES BNDRY	RRC-103		VT-2	2VT2-98	5/31/98		

Notes are on page 12

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

Item Number: 815.70 HPCS-V-4-SDY(L) LK PRES TEST HPCS-101 01 VT-2 2VT2-98 5/31/98 A HPCS-V-5-BV(L) LK PRES TEST HPCS-101 02 VT-2 2VT2-98 5/31/98 A LPCS-V-5-BV(L) LK PRES TEST HPCS-101 02 VT-2 2VT2-98 5/31/98 A LPCS-V-5-BV(L) LK PRES TEST LPCS-101 02 VT-2 2VT2-98 5/31/98 A MS-RV-16-BV(L) LK PRES TEST LPCS-101 02 VT-2 2VT2-98 5/31/98 A MS-RV-16-BV(L) LK PRES TEST HS-101 01 VT-2 2VT2-98 5/31/98 A MS-RV-10-BV(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-10-BV(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-20-BV(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-20-BV(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 </th <th></th> <th>Identification No.</th> <th>Description</th> <th>Diagram No.</th> <th>Pg.</th> <th>Hethod</th> <th>Report No.</th> <th>Date</th> <th>Results(1)</th>		Identification No.	Description	Diagram No.	Pg.	Hethod	Report No.	Date	Results(1)
IPCS-V-5-B7(L) IX PRES TEST IPCS-101 02 VT-2 2VT-98 5/31/98 A IPCS-V-5-B7(L) IX PRES TEST LPCS-V-1 2VT-98 5/31/98 A LPCS-V-5-B70(L) IX PRES TEST LPCS-V-1 2VT-98 5/31/98 A LPCS-V-5-B70(L) IX PRES TEST LPCS-V-1 VT-2 2VT-98 5/31/98 A MS-RV-1A-BDY(L) IX PRES TEST LPCS-V-1 VT-2 2VT-98 5/31/98 A MS-RV-1B-BDY(L) IX PRES TEST NS-101 01 VT-2 2VT2-98 5/31/98 A MS-RV-1B-BDY(L) IX PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-2B-BDY(L) IX PRES TEST NS-101 01 VT-2 2VT2-98 5/31/98 A MS-RV-2B-BDY(L) IX PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-2B-BDY(L) IX PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A <	Item I	Number: B15.70							
IPCS-V-51-BDY(L) LK PRES TEST HPCS-101 02 VT-2 2VI2-298 5/31/98 A LPCS-V-51-BDY(L) LK PRES TEST LPCS-101 02 VT-2 2VI2-298 5/31/98 A LPCS-V-51-BDY(L) LK PRES TEST LPCS-101 02 VT-2 2VI2-298 5/31/98 A MS-RV-1A-BBDY(L) LK PRES TEST NS-101 01 VT-2 2VI2-298 5/31/98 A MS-RV-1D-BDY(L) LK PRES TEST NS-103 01 VT-2 2VI2-298 5/31/98 A MS-RV-2BDY(L) LK PRES TEST NS-101 01 VT-2 2VI2-298 5/31/98 A MS-RV-2BDY(L) LK PRES TEST NS-103 01 VT-2 2VI2-298 5/31/98 A MS-RV-3BDY(L) LK PRES TEST NS-101 01 VT-2 2VI2-298 5/31/98 A MS-RV-3BDY(L) LK PRES TEST NS-101 01 VT-2 2VI2-298 5/31/98 A MS-RV-3BDY(L) LK PRES TEST <t< td=""><td></td><td>HPCS-V-4-BDY(L)</td><td>LK PRES TEST</td><td>HPCS-101</td><td>01</td><td>'VT-2</td><td>2VT2-98</td><td>5/31/98</td><td>A</td></t<>		HPCS-V-4-BDY(L)	LK PRES TEST	HPCS-101	01	'VT-2	2VT2-98	5/31/98	A
LPCS-V-5-BOY(L) LK PRES TEST LPCS-101 01 VT-2 2VI2-98 5/31/98 A LPCS-V-6-BOY(L) LK PRES TEST LPCS-101 02 VT-2 2VI2-98 5/31/98 A MS-RV-1A-BOY(L) LK PRES TEST NS-101 01 VT-2 2VI2-98 5/31/98 A MS-RV-10-BOY(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-10-BOY(L) LK PRES TEST NS-104 01 VT-2 2VI2-98 5/31/98 A MS-RV-20-BOY(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-20-BOY(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-20-BOY(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-20-BOY(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-20-BOY(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A M		HPCS-V-5-BDY(L)	LK PRES TEST	HPCS-101	02 '	VT-2	2VT2-98	5/31/98	A
LPCS-V-5-BV(L) LK PRES TEST LPCS-101 01 VT-2 2VI2-98 5/31/98 A LPCS-V-6-BDV(L) LK PRES TEST LPCS-101 02 VT-2 2VI2-98 5/31/98 A MS-RV-18-BDV(L) LK PRES TEST NS-101 01 VT-2 2VI2-98 5/31/98 A MS-RV-18-BDV(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-10-BDV(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-20-BDV(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-20-BDV(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-20-BDV(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-30-BDV(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-30-BDV(L) LK PRES TEST NS-102 01 VT-2 2VI2-98 5/31/98 A MS		HPCS-V-51-BDY(L)	LK PRES TEST	HPCS-101	02	VT-2	2VT2-98	5/31/98	A
LPCS-V-G-BDY(L) LK PRES TEST LPCS-101 02 VT-2 2VT-2 5/31/98 A MS-RV-18-BDY(L) LK PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-18-BDY(L) LK PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-10-BDY(L) LK PRES TEST NS-104 01 VT-2 2VT2-98 5/31/98 A MS-RV-28-BDY(L) LK PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-28-BDY(L) LK PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-28-BDY(L) LK PRES TEST NS-104 01 VT-2 2VT2-98 5/31/98 A MS-RV-38-DDY(L) LK PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-48-DDY(L) LK PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-49-BDY(L) LK PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV		LPCS-V-5-BDY(L)	LK PRES TEST	LPCS-101	01	VT-2	2VT2-98	5/31/98	Α
NS-RV-18-RDV(L) LL PRES TEST NS-101 01 VT-2 2VT2-98 5/31/98 A NS-RV-18-RDV(L) LL PRES TEST NS-103 01 VT-2 2VT2-98 5/31/98 A NS-RV-26-RDV(L) LL PRES TEST NS-104 01 VT-2 2VT2-98 5/31/98 A NS-RV-28-RDV(L) LL PRES TEST NS-101 01 VT-2 2VT2-98 5/31/98 A NS-RV-28-RDV(L) LL PRES TEST NS-101 01 VT-2 2VT2-98 5/31/98 A NS-RV-28-RDV(L) LL PRES TEST NS-104 01 VT-2 2VT2-98 5/31/98 A NS-RV-28-RDV(L) LL PRES TEST NS-104 01 VT-2 2VT2-98 5/31/98 A NS-RV-28-RDV(L) LL PRES TEST NS-104 01 VT-2 2VT2-98 5/31/98 A NS-RV-28-RDV(L) LL PRES TEST NS-104 01 VT-2 2VT2-98 5/31/98 A NS-RV-38-RDV(L) LL PRES TEST NS-104 01 VT-2 2VT2-98 5/31/98 A NS-RV-38-RDV(L) LL PRES TEST NS-104 01 VT-2 2VT2-98 5/31/98 A NS-RV-38-RDV(L) LL PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A NS-RV-38-RDV(L) LL PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A NS-RV-38-RDV(L) LL PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A NS-RV-38-RDV(L) LL PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A NS-RV-48-RDV(L) LL PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A NS-RV-48-RDV(L) LL PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A NS-RV-48-RDV(L) LL PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A NS-RV-48-RDV(L) LL PRES TEST NS-102 01 VT-2 2VT2-98 5/31/98 A NS-RV-48-RDV(L) LL PRES TEST NS-103 01 VT-2 2VT2-98 5/31/98 A NS-RV-228-RDV(L) LL PRES TEST NS-103 01 VT-2 2VT2-98 5/31/98 A NS-RV-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-RV-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A NS-V-228-RDV(L) LL PRES TEST NS-101 01 VT-2 2VT2-98 5/31/98		LPCS-V-51-BDY(L)	LK PRES TEST	LPCS-101	02	VT-2	2VT2-98	5/31/98	A
NS-RV-18-BD7(L) LC PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A NS-RV-10-BD7(L) LC PRES TEST NS-104 01 VT-2 2VIZ-98 5/31/98 A NS-RV-28-BD7(L) LC PRES TEST NS-104 01 VT-2 2VIZ-98 5/31/98 A MS-RV-28-BD7(L) LC PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-28-BD7(L) LC PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-28-BD7(L) LC PRES TEST NS-104 01 VT-2 2VIZ-98 5/31/98 A MS-RV-38-BD7(L) LC PRES TEST NS-101 01 VT-2 2VIZ-98 5/31/98 A MS-RV-36-BD7(L) LC PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-46-BD7(L) LC PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-46-BD7(L) LC PRES TEST NS-102<		LPCS-V-6-BDY(L)	LK PRES TEST	LPCS-101	02	VT-2	2VT2-98	5/31/98	Α
NS-RV-10-EDV(L) LLF PRES TEST NS-103 01 VT-2 2VIZ-98 5/31/98 A MS-RV-28-EDV(L) LLF PRES TEST NS-101 01 VT-2 2VIZ-98 5/31/98 A MS-RV-28-EDV(L) LK PRES TEST NS-101 01 VT-2 2VIZ-98 5/31/98 A MS-RV-28-EDV(L) LK PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-28-EDV(L) LK PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-36-EDV(L) LK PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-36-EDV(L) LK PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-46-EDV(L) LK PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-46-EDV(L) LK PRES TEST NS-102 01 VT-2 2VIZ-98 5/31/98 A MS-RV-26-EDV(L) LK PRES TEST NS-10		MS-RV-1A-BDY(L)	LK PRES TEST	HS-101	01	VT-2	2VT2-98	5/31/98	A
MS-RV-10-EDY(L) LK PRES TEST MS-104 01 VT-2 2VI2-98 5/31/98 A MS-RV-28-EDY(L) LK PRES TEST MS-101 01 VT-2 2VI2-98 5/31/98 A MS-RV-26-EDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-26-EDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-36-EDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-37-BDY(L) LK PRES TEST MS-104 01 VT-2 2VI2-98 5/31/98 A MS-RV-36-EDY(L) LK PRES TEST MS-104 01 VT-2 2VI2-98 5/31/98 A MS-RV-46-EDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-46-EDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-26-EDY(L) LK PRES TEST MS-102<		MS-RV-1B-BDY(L)	LK PRES TEST	HS-102	01 '	VT-2	2VT2-98	5/31/98	A
MS-RV-26-BDY(L) LK PRES TEST MS-101 01 VT-2 2VI2-98 5/31/98 A MS-RV-26-BDY(L) LK PRES TEST MS-103 01 VT-2 2VI2-98 5/31/98 A MS-RV-26-BDY(L) LK PRES TEST MS-103 01 VT-2 2VI2-98 5/31/98 A MS-RV-36-BDY(L) LK PRES TEST MS-101 01 VT-2 2VI2-98 5/31/98 A MS-RV-36-BDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-36-BDY(L) LK PRES TEST MS-101 01 VT-2 2VI2-98 5/31/98 A MS-RV-46-BDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-46-BDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-26-BDY(L) LK PRES TEST MS-102 02 VT-2 2VI2-98 5/31/98 A MS-V-228-BDY(L) LK PRES TEST MS-102<		MS-RV-1C-BDY(L)	LK PRES TEST	MS-103	01	VT-2	2VT2-98		٨
MS-RV-26-BDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-26-BDY(L) LK PRES TEST MS-103 01 VT-2 2VI2-98 5/31/98 A MS-RV-36-BDY(L) LK PRES TEST MS-104 01 VT-2 2VI2-98 5/31/98 A MS-RV-37-BDY(L) LK PRES TEST MS-101 01 VT-2 2VI2-98 5/31/98 A MS-RV-36-BDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-36-BDY(L) LK PRES TEST MS-101 01 VT-2 2VI2-98 5/31/98 A MS-RV-46-BDY(L) LK PRES TEST MS-101 01 VT-2 2VI2-98 5/31/98 A MS-RV-46-BDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-RV-26-BDY(L) LK PRES TEST MS-102 01 VT-2 2VI2-98 5/31/98 A MS-V-228-BDY(L) LK PRES TEST MS-101<		MS-RV-1D-BDY(L)	LK PRES TEST	HS-104	01	VT-2	2VT2-98	5/31/98	٨
HS-RV-2C-BDY(L) LK PRES TEST HS-103 01 VT-2 2VT2-98 5/31/98 A HS-RV-2D-BDY(L) LK PRES TEST HS-104 01 VT-2 2VT2-98 5/31/98 A HS-RV-3A-BDY(L) LK PRES TEST HS-101 01 VT-2 2VT2-98 5/31/98 A HS-RV-3D-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A HS-RV-3D-BDY(L) LK PRES TEST HS-103 01 VT-2 2VT2-98 5/31/98 A HS-RV-4A-BDY(L) LK PRES TEST HS-101 01 VT-2 2VT2-98 5/31/98 A HS-RV-4C-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A HS-RV-4C-BDY(L) LK PRES TEST HS-101 02 VT-2 2VT2-98 5/31/98 A HS-RV-22A-BDY(L) LK PRES TEST HS-101 02 VT-2 2VT2-98 5/31/98 A HS-V-22A-BDY(L) LK PRES TEST HS-102		MS-RV-2A-BDY(L)	LK PRES TEST	NS-101	01	VT-2	2VT2-98	5/31/98	Α
HS-RV-2D-BDY(L) LK PRES TEST HS-104 01 VT-2 2VT2-98 5/31/98 A HS-RV-3A-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-3C-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-3C-BDY(L) LK PRES TEST HS-104 01 VT-2 2VT2-98 5/31/98 A MS-RV-4G-BDY(L) LK PRES TEST HS-104 01 VT-2 2VT2-98 5/31/98 A MS-RV-6G-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-6G-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-5D-BDY(L) LK PRES TEST HS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST HS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22D-BDY(L) LK PRES TEST HS-102<		MS-RV-2B-BDY(L)	LK PRES TEST	MS-102	01	VT-2	2VT2-98	5/31/98	A
HS-RV-3A-EDV(L) LK PRES TEST HS-101 01 VT-2 2VT2-98 5/31/98 A HS-RV-3C-EDV(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A HS-RV-3C-EDV(L) LK PRES TEST HS-104 01 VT-2 2VT2-98 5/31/98 A HS-RV-3C-EDV(L) LK PRES TEST HS-104 01 VT-2 2VT2-98 5/31/98 A HS-RV-4A-EDV(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A HS-RV-4C-EDV(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A HS-RV-4C-EDV(L) LK PRES TEST HS-103 01 VT-2 2VT2-98 5/31/98 A HS-RV-22A-EDV(L) LK PRES TEST HS-103 02 VT-2 2VT2-98 5/31/98 A HS-V-22A-EDV(L) LK PRES TEST HS-103 02 VT-2 2VT2-98 5/31/98 A HS-V-22B-EDV(L) LK PRES TEST HS-102 02 VT-2 2VT2-98 5/31/98 A HS-V		MS-RV-2C-BDY(L)	LK PRES TEST	HS-103	01	' VT-2	2VT2-98	5/31/98	A
HS-RV-35-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A HS-RV-30-BDY(L) LK PRES TEST HS-103 01 VT-2 2VT2-98 5/31/98 A HS-RV-30-BDY(L) LK PRES TEST HS-101 01 VT-2 2VT2-98 5/31/98 A HS-RV-4A-BDY(L) LK PRES TEST HS-101 01 VT-2 2VT2-98 5/31/98 A HS-RV-4A-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A HS-RV-4D-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A HS-RV-22A-BDY(L) LK PRES TEST HS-102 01 VT-2 2VT2-98 5/31/98 A HS-V-22A-BDY(L) LK PRES TEST HS-102 02 VT-2 2VT2-98 5/31/98 A HS-V-22A-BDY(L) LK PRES TEST HS-101 02 VT-2 2VT2-98 5/31/98 A HS-V-22A-BDY(L) LK PRES TEST HS-101		MS-RV-2D-BDY(L)	LK PRES TEST	HS-104	01	VT-2	2VT2-98	5/31/98	A
MS-RV-3C-BDY(L) LK PRES TEST MS-103 01 VT-2 2VT2-98 5/31/98 A MS-RV-3D-BDY(L) LK PRES TEST MS-101 01 VT-2 2VT2-98 5/31/98 A MS-RV-4A-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-4C-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-4C-BDY(L) LK PRES TEST MS-104 01 VT-2 2VT2-98 5/31/98 A MS-RV-5D-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-		HS-RV-3A-BDY(L)	LK PRES TEST	NS-101	01	VT-2	2VT2-98	5/31/98	A
MS-RV-30-BDY(L) LK PRES TEST MS-104 01 VT-2 2VT2-98 5/31/98 A MS-RV-4A-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-4A-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-40-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-50-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-52-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-228-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-228-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-		MS-RV-3B-BDY(L)	LK PRES TEST	HS-102 .	01	VT-2	2VT2-98	5/31/98	A
MS-RV-4A-BDY(L) LK PRES TEST MS-101 01 VT-2 2VT2-98 5/31/98 A MS-RV-46-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-46-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-40-BDY(L) LK PRES TEST MS-104 01 VT-2 2VT2-98 5/31/98 A MS-RV-50-BDY(L) LK PRES TEST MS-103 01 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-28A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-		MS-RV-3C-BDY(L)	LK PRES TEST	MS-103	01	VT-2	2VT2-98	5/31/98	A
MS-RV-48-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-40-BDY(L) LK PRES TEST MS-103 01 VT-2 2VT2-98 5/31/98 A MS-RV-40-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-50-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-52C-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22D-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-28D-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V		MS-RV-3D-BDY(L)	LK PRES TEST	MS-104	01	VT-2	2VT2-98	5/31/98	A
MS-RV-4C2-BDY(L) LK PRES TEST MS-103 01 VT-2 2VT2-98 5/31/98 A MS-RV-5B-BDY(L) LK PRES TEST MS-104 01 VT-2 2VT2-98 5/31/98 A MS-RV-5B-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-5C-BDY(L) LK PRES TEST MS-103 01 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22D-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-28D-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-28D-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-28D-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V		MS-RV-4A-BDY(L)	LK PRES TEST	MS-101	01	VT-2	2VT2-98	5/31/98	A
MS-RV-40-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-SC-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-SC-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22D-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A RCIC-		MS-RV-4B-BDY(L)	LK PRES TEST	HS-102	01	VT-2	2VT2-98	5/31/98	A
MS-RV-5B-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A MS-RV-5C-BDY(L) LK PRES TEST MS-103 01 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22C-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-28B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-28D-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-28D-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-28D-BDY(L) LK PRES TEST MS-102 01 VT-2 2VT2-98 5/31/98 A RCIC-		MS-RV-4C-BDY(L)		MS-103	01	VT-2	2VT2-98	5/31/98	A
MS-RV-52C-BDY(L) LK PRES TEST MS-103 01 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-22C-BDY(L) LK PRES TEST MS-103 02 VT-2 2VT2-98 5/31/98 A MS-V-22C-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-28A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-280-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-280-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A RCIC-V-13-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-64-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A <t< td=""><td></td><td>MS-RV-4D-BDY(L)</td><td>LK PRES TEST</td><td>MS-104</td><td>01</td><td>VT-2</td><td>2VT2-98</td><td>5/31/98</td><td>A</td></t<>		MS-RV-4D-BDY(L)	LK PRES TEST	MS-104	01	VT-2	2VT2-98	5/31/98	A
MS-V-22A-BDY(L) LK PRES TEST MS-101 OI VI-2 2VI2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 O2 VI-2 2VI2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-102 O2 VI-2 2VI2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-104 O2 VI-2 2VI2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-104 O2 VI-2 2VI2-98 5/31/98 A MS-V-22A-BDY(L) LK PRES TEST MS-101 O2 VI-2 2VI2-98 5/31/98 A MS-V-28A-BDY(L) LK PRES TEST MS-102 O2 VI-2 2VI2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST MS-102 O2 VI-2 2VI2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-1010 O1 VI-2 2VI2-98 5/31/98 A RCIC-V-64-BDY(L) LK PRES TEST RCIC-102 O1 VI-2 2VI2-98 5/31/98 A <t< td=""><td></td><td>MS-RV-5B-BDY(L)</td><td>LK PRES TEST</td><td>MS-102</td><td>01</td><td>VT-2</td><td>2VT2-98</td><td>5/31/98</td><td>A</td></t<>		MS-RV-5B-BDY(L)	LK PRES TEST	MS-102	01	VT-2	2VT2-98	5/31/98	A
MS-V-228-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT-2.98 5/31/98 A MS-V-220-BDY(L) LK PRES TEST MS-103 02 VT-2 2VT2-98 5/31/98 A MS-V-220-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-228-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-288-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-280-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-280-BDY(L) LK PRES TEST NA VT-2 2VT2-98 5/31/98 A MS-V-280-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-65-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-10A-BDY(L) </td <td></td> <td>MS-RV-5C-BDY(L)</td> <td>LK PRES TEST</td> <td>MS-103</td> <td>01 -</td> <td>VT-2</td> <td>2VT2-98</td> <td></td> <td>A</td>		MS-RV-5C-BDY(L)	LK PRES TEST	MS-103	01 -	VT-2	2VT2-98		A
MS-V-22C-BDY(L) LK PRES TEST MS-103 02 VT-2 2VT2-98 5/31/98 A MS-V-22D-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-22B-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-28B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST MS-103 02 VT-2 2VT2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST RS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-66-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A <		MS-V-22A-BDY(L)	LK PRES TEST	HS-101	02	VT-2	2VT2-98	5/31/98	A
HS-V-22D-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-28A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT2-98 5/31/98 A MS-V-28B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST MS-103 02 VT-2 2VT2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A PSR-V-77A/1 LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-64-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-66-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A <td< td=""><td></td><td>MS-V-22B-BDY(L)</td><td>LK PRES TEST</td><td>HS-102</td><td>02</td><td>VT-2</td><td>2VT2-98</td><td>5/31/98</td><td>A</td></td<>		MS-V-22B-BDY(L)	LK PRES TEST	HS-102	02	VT-2	2VT2-98	5/31/98	A
HS-V-28A-BDY(L) LK PRES TEST MS-101 02 VT-2 2VT-2 2VT-298 5/31/98 A MS-V-28B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST MS-103 02 VT-2 2VT2-98 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT2-98 5/31/98 A PSR-V-77A/1 LK PRES TEST RG1C-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-64-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-64-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-66-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-10A-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A		MS-V-22C-BDY(L)	LK PRES TEST	NS-103	02	VT-2	2VT2-98	5/31/98	A
MS-V-28B-BDY(L) LK PRES TEST MS-102 02 VT-2 2VT-2 2VT-2 5/31/98 A MS-V-28C-BDY(L) LK PRES TEST MS-103 02 VT-2 2VT-2 5/31/98 A MS-V-28D-BDY(L) LK PRES TEST MS-103 02 VT-2 2VT2-98 5/31/98 A PSR-V-77A/1 LK PRES TEST MA VT-2 2VT2-98 5/31/98 A RCIC-V-13-BDY(L) LK PRES TEST RA VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-66-BDY(L) LK PRES TEST RCIC-102 03 VT-2 2VT2-98 5/31/98 A RFU-V-10A-BDY(L) LK PRES TEST RFU-102 01 VT-2 2VT2-98 5/31/98 A RFU-V-11A-BDY(L) LK PRES TEST RFU-102 01 VT-2 2VT2-98 5/31/98 A RFU-V-11A-BDY(L)		MS-V-22D-BDY(L)	LK PRES TEST	MS-104	02	VT-2	2VT2-98	5/31/98	A
HS-V-28C-BDY(L) LK PRES TEST NS-103 02 VT-2 2VT2-98 5/31/98 A MS-V-28D-BDY(L) LK PRES TEST NS-104 02 VT-2 2VT2-98 5/31/98 A PSR-V-77A/1 LK PRES TEST NA VT-2 2VT2-98 5/31/98 R(7) RCIC-V-13-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-66-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-66-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-10A-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-V-10B-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-V-11B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-32B-		MS-V-28A-BDY(L)	LK PRES TEST	HS-101	02	VT-2	2VT2-98	5/31/98	A
MS-V-28D-BDY(L) LK PRES TEST MS-104 02 VT-2 2VT-298 5/31/98 A PSR-V-77A/1 LK PRES TEST NA VT-2 2VT-298 5/31/98 R(7) RCIC-V-13-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-66-BDY(L) LK PRES TEST RCIC-102 03 VT-2 2VT2-98 5/31/98 A RFW-V-10A-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-V-118-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-328-BDY(L) LK PRES TEST RFW-101		MS-V-28B-BDY(L)	LK PRES TEST	MS-102	02	VT-2	2VT2-98	5/31/98	٨
PSR-V-77A/1 LK PRES TEST NA VT-2 2VT2-98 5/31/98 R(7) RCIC-V-13-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-63-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-64-BDY(L) LK PRES TEST RCIC-101 01 VT-2 2VT2-98 5/31/98 A RCIC-V-65-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RCIC-V-66-BDY(L) LK PRES TEST RCIC-102 03 VT-2 2VT2-98 5/31/98 A RCIC-V-66-BDY(L) LK PRES TEST RCIC-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-10A-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-V-10B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-11B-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-		MS-V-28C-BDY(L)	LK PRES TEST	NS-103	02	VT-2		5/31/98	A
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RFW-V-10B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-11A-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-V-11B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-32A-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-32A-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-32B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-65A-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-65B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RHW-V-111A-BDY(L) LK PRES TEST RHR-101 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-102 VT-2 2VT2-98 5/31/98 A RHR-V-1112A-BDY(L)<	•								
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RFW-V-32A-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-V-32B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-65A-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-V-65B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RHR-V-111A-BDY(L) LK PRES TEST RHR-101 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-102 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-103 VT-2 2VT2-98 5/31/98 A RHR-V-112A-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR									
RFW-V-32B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RFW-V-65A-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-V-65B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RHR-V-111A-BDY(L) LK PRES TEST RHR-101 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-102 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-103 VT-2 2VT2-98 5/31/98 A RHR-V-112A-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L)									
RFW-V-65A-BDY(L) LK PRES TEST RFW-101 01 VT-2 2VT2-98 5/31/98 A RFW-V-65B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RHR-V-111A-BDY(L) LK PRES TEST RHR-101 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-102 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-102 VT-2 2VT2-98 5/31/98 A RHR-V-111C-BDY(L) LK PRES TEST RHR-103 VT-2 2VT2-98 5/31/98 A RHR-V-112A-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L) LK PRES TEST RHR-104 VT-2 2VT2-98 5/31/98 A								5/31/98	
RFW-V-65B-BDY(L) LK PRES TEST RFW-102 01 VT-2 2VT2-98 5/31/98 A RHR-V-111A-BDY(L) LK PRES TEST RHR-101 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-102 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-102 VT-2 2VT2-98 5/31/98 A RHR-V-111C-BDY(L) LK PRES TEST RHR-103 VT-2 2VT2-98 5/31/98 A RHR-V-112A-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L) LK PRES TEST RHR-104 VT-2 2VT2-98 5/31/98 A									
RHR-V-111A-BDY(L) LK PRES TEST RHR-101 VT-2 2VT2-98 5/31/98 A RHR-V-111B-BDY(L) LK PRES TEST RHR-102 VT-2 2VT2-98 5/31/98 A RHR-V-111C-BDY(L) LK PRES TEST RHR-103 VT-2 2VT2-98 5/31/98 A RHR-V-111C-BDY(L) LK PRES TEST RHR-103 VT-2 2VT2-98 5/31/98 A RHR-V-112A-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L) LK PRES TEST RHR-104 VT-2 2VT2-98 5/31/98 A									
RHR-V-111B-BDY(L) LK PRES TEST RHR-102 VT-2 2VT2-98 5/31/98 A RHR-V-111C-BDY(L) LK PRES TEST RHR-103 VT-2 2VT2-98 5/31/98 A RHR-V-112A-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L) LK PRES TEST RHR-104 VT-2 2VT2-98 5/31/98 A					01				
RHR-V-111C-BDY(L) LK PRES TEST RHR-103 VT-2 2VT2-98 5/31/98 A RHR-V-112A-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L) LK PRES TEST RHR-104 VT-2 2VT2-98 5/31/98 A									
RHR-V-112A-BDY(L) LK PRES TEST RHR-105 VT-2 2VT2-98 5/31/98 A RHR-V-112B-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L) LK PRES TEST RHR-104 VT-2 2VT2-98 5/31/98 A									
RHR-V-112B-BDY(L) LK PRES TEST RHR-106 VT-2 2VT2-98 5/31/98 A RHR-V-113-BDY(L) LK PRES TEST RHR-104 VT-2 2VT2-98 5/31/98 A									
RHR-V-113-BDY(L) LK PRES TEST RHR-104 VT-2 2VT2-98 5/31/98 A		•••							
KNK-V-19-BUT(L) LK PRESTEST KUTC-102 01 VT-2 2V12-98 5/51/98 A									_
		KUK-A-IA-ROI(F)	LK PRES TEST	KUIU- 102	01	VI-2	2412-20	2/21/20	A

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- 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

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- 4. **Owner Certificate of Authorization:** NA
- 5. **Commercial Service Date:** 12/13/84
- 6. National Board Number: NA

13. Abstract of Examinations and Tests (continued):

Identification No.	Description	Diagram No.	Pg.	Nethod	Report No.	Date	Results(1)
RHR-V-23-BDY(L)	LK PRES TEST	RCIC-102	01	VT-2	2VT2-98	5/31/98	A
RHR-V-41A-BDY(L)	LK PRES TEST	RHR-101		VT-2	2VT2-98	5/31/98	Ä
RHR-V-41B-BDY(L)	LK PRES TEST	RHR-102		VT-2	2VT2-98	5/31/98	Ä
RHR-V-41C-BDY(L)	LK PRES TEST	RHR-103		VT-2	2VT2-98	5/31/98	Ä
RHR-V-42A-BDY(L)	LK PRES TEST	RHR-101		VT-2	2VT2-98	5/31/98	Â
RHR-V-42B-BDY(L)	LK PRES TEST	RHR-102		VT-2	2VT2-98	5/31/98	Â
RHR-V-42C-BDY(L)	LK PRES TEST	RHR-103		VT-2	2VT2-98	5/31/98	Å
RHR-V-50A-BDY(L)	LK PRES TEST	RHR-105		VT-2	2VT2-98	5/31/98	Â
RHR-V-50B-BDY(L)	LK PRES TEST	RHR-106		VT-2	2VT2-98	5/31/98	Â
RHR-V-53A-BDY(L)	LK PRES TEST	RHR-105		VT-2	2VT2-98	5/31/98	
RHR-V-53B-BDY(L)	LK PRES TEST	RHR-105		VT-2	2VT2-98	5/31/98	A
RHR-V-8-BDY(L)	LK PRES TEST	RHR-104		VT-2	2VT2-98		A
RHR-V-9-BDY(L)	LK PRES TEST	RHR-104		VT-2	2VT2-98	5/31/98	A
RRC-V-23A-BDY(L)	LK PRES TEST		01	VT-2		5/31/98	A
RRC-V-23B-BDY(L)	LK PRES TEST	RRC-101			2VT2-98	5/31/98	A
		RRC-102	01	VT-2	2VT2-98	5/31/98	A
RRC-V-60A-BDY(L)	LK PRES TEST	RRC-101	02	VT-2	2VT2-98	5/31/98	A
RRC-V-60B-BDY(L)	LK PRES TEST	RRC-102	02	VT-2	2VT2-98	5/31/98	A
RRC-V-67A-BDY(L)	LK PRES TEST	RRC-101	02	VT-2	2VT2-98	5/31/98	A
RRC-V-67B-BDY(L)	LK PRES TEST	RRC-102	02	VT-2	2VT2-98	5/31/98	٨
RWCU-V-1-BDY(L)	LK PRES TEST	RWCU-101	04	VT-2	2VT2-98	5/31/98	A
RWCU-V-102-BDY(L)	LK PRES TEST	RWCU-101	02	VT-2	2VT2-98	5/31/98	A
RWCU-V-4-BDY(L)	LK PRES TEST	RWCU-101	05	VT-2	2VT2-98	5/31/98	A
RWCU-V-40-BDY(L)	LK PRES TEST	RFW-103		VT-2	2VT2-98	5/31/98	Α
Examination Category: C-F-2 Item Number: C5.51							
6HS(1)A-2	PIPE TO CAP	HS-201	04	SUR VOL	2HSH-026 R-R13-001	4/22/98 4/22/98	A A
Examination Category: C-H			*				
Item Number: C7.30	F						
CRD-PB-201(L)	LK PRES BNDRY	CRD-201		VT-2	2CRV-004	4/18/98	٨
CRD-PB-202(L)	LK PRES BNDRY	CRD-202		VT-2	2CRV-004	4/18/98	٨
HPCS-PB-201(L)	LK PRES BNDRY	HPCS-201		VT-2	2HPV-001	12/10/97	Å
HPCS-PB-202(L)	LK PRES BNDRY	HPCS-202		VT-2 '	2HPV-001	12/10/97	Ä
LPCS-PB-201(L)	LK PRES BNDRY	LPCS-201		VT-2	2LPV-002	9/17/97	Ä
LPCS-PB-202(L)	LK PRES BNDRY	LPCS-202		VT-2	2LPV-002	9/17/97	A
RCC-PB-201(L)	LK PRES BNDRY	RCC-201		VT-2	2RCV-01	5/31/98	Ä
RCC-PB-202(L)	LK PRES BNDRY	RCC-202		VT-2	2RCV-01	5/31/98	Ä
RCIC-PB-201(L)	LK PRES BNDRY	RCIC-201		VT-2	2RIV-004	12/31/97	Ä
RCIC-PB-203(L)	LK PRES BNDRY	RCIC-203		VT-2	2RIV-004	12/31/97	Â
RCIC-PB-204(L)	LK PRES BNDRY	RCIC-204		VT-2	2RIV-005	12/31/97	Ä
RCIC-PB-205(L)	LK PRES BNDRY	RCIC-205		VT-2	2RIV-005	12/31/97	Â
RHR-P8-201(L)	LK PRES BNDRY	RHR-201		VT-2	2RHV-011	11/10/97	Ä
RHR-PB-202(L)	LK PRES BNDRY	* RHR-202		VT-2	2RHV-011	11/10/97	Ä
<pre> RHR-PB-203(L) </pre>	LK PRES BNDRY	RHR-203		VT-2	2RHV-011	11/10/97	Â
RHR-PB-204(L)	LK PRES BNDRY	RHR-204		VT-2	2RHV-011	44 444 445	- Â
RHR-PB-205(L)	LK PRES BNDRY	RHR-205		VT-2	2RHV-011	11/10/97	Å
> RHR-PB-206(L)	LK PRES BNDRY	RHR-206		VT-2	2RHV-011	11/10/97	Ā
RHR-PB-207(L)	LK PRES BNDRY	RHR-207		VT-2	2RHV-012	12/02/97	Â
RHR-PB-208(L)	LK PRES BNDRY	RHR-208		VT-2	2RHV-012	12/02/97	Â
RHR-PB-209(L)	LK PRES BNDRY	RHR-209		VT-2	2RHV-012	12/02/97	Â
RHR-PB-210(L)	LK PRES BNDRY	RHR-210		VT-2	2RHV-013	12/09/97	Â
		NIN 617		VT-3	20111-012	12/07/71	

Notes are on page 12

RHR-PB-211(L)

LK PRES BNDRY

RHR-211

VT-2

2RHV-013

12/09/97

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_	1.	Owner: Washington Pul Washington 993		ystem, 3000 Ge	orge V	Vashingto	n Way, PO B	ox 968, Ric	hland,
	2.		2, Hanford Reservat	tion, Benton Co	unty, \	Vashingto	a	•	
	3.	Plant Unit: WNP-	2		•	-			
	4.	Owner Certificate of Au	thorization:	NA					
	5.	Commercial Service Da	te: 12/13/84	4			٩		
	6.	National Board Number							
	10								_
	13.	Abstract of Examination	ons and Tests (con	tinued):			r		
		Identification No.	Description	Diagram No.	Pg.	Hethod	Report No.	Date	Results(1)
•		ation Category: D-C umber: D3.10							-
		FPC-PB-301(L)	LK PRES BNDRY	FPC-301		VT-2	2FPV-001	12/12/97	٨
		FPC-PB-302(L)	LK PRES BNDRY	FPC-302		VT-2	2FPV-001	12/17/97	Â
		FPC-PB-303(L)	LK PRES BNDRY	FPC-303		VT-2	2FPV-001	12/12/97	A
		FPC-PB-304(L)	LK PRES BNDRY	FPC-304		VT-2	2FPV-001	12/17/97	٨
		FPC-PB-305(L)	LK PRES BNDRY	FPC-305		VT-2	2FPV-001	12/17/97	A
		ation Category: F-A mber: F1.10D							
		RWCU-1C-3	PSA-3 SNUBBER	RWCU-101	04	VT-3	2HV- 138	5/04/98	A(2)
	Item Nu	mber: F1.20A							
		FPC-903N	ANCHOR	FPC-201		VT-3	2HV-120	5/02/98	A
	Item Nu	mber: F1.20D						*	
		HS-114	PSA-10 SNUBBER	HS-201	02	VT-3	2HV-136	4/23/98	A(2)
		HS-91	PSA-3 SNUBBER	MS-201	03	VT-3	2HV-134	5/19/98	A(2)
		MS-999N	PSA-10 SNUBBER	MS-203	03	VT-3	2HV-140	5/04/98	A(2)
	Item Nu	mber: F1.30C							
		FPC-86	BOX	FPC-301	05	VT-3	2HV-127	5/15/98	A
	Item Nu	mber: F1.30D							
		MSRV-4B-3	PSA-10 SNUBBER	MS-308	01	VT-3	2HV-137	5/04/98	A(2)
	Item Nu	mber: F1.40A							
	ł	DCW-HX-1A1(CS)	HX BASE	SW-302		VT-3	2KV-122	5/04/98	A
		DCW-HX-1A2(CS)	HX BASE	SW-302		VT-3	2HV-123	5/04/98	Ä
		DCW-HX-1B1(CS)	HX BASE	SW-306		VT-3	2HV-124	5/04/98	A
		DCW-HX-1B2(CS)	HX BASE	SW-306		VT-3	2HV-125	5/04/98	A
		DCW-HX-1C(CS)	HX BASE	SW-310	~	VT-3	2HV-126	5/04/98	A
		FPC-DM-1A(CS) FPC-DM-1B(CS)	DEMIN BASE Demin Base	FPC-304 FPC-304	04 05	VT-3 VT-3	2HV-117 2HV-118	3/11/98 3/11/98	A
		FPC-HX-1A(CS)	HX BASE	FPC-302	02	VT-3	2HV-130	5/15/98	A - A
		FPC-HX-1B(CS)	HX BASE	FPC-303	03	VT-3	2HV-131	5/15/98	A
		FPC-P-1A(CS)	PUHP BASE	FPC-301	05		2HV-128	5/15/98	Ă
		FPC-P-1B(CS)	PUMP BASE	FPC-301	06	VT-3	2HV-129	5/15/98	A
		FPC-P-3(CS)	PUMP BASE	FPC-306			2HV-121	5/02/98	A
	1	HPCS-P-2(CS)	PUMP BASE	sw-309		VT-3	287-115	5/02/98	Α

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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. WNP-2 **Plant Unit:** 4. **Owner Certificate of Authorization:** NA 5. **Commercial Service Date:** 12/13/84 National Board Number: NA 6. 13. Abstract of Examinations and Tests (continued):

Identification No. Description Diagram No. Pg. Hethod Report No. Date Results(1)

Notes to section 13 "Abstract of Examinations and Tests"

- (1) A = Acceptable R = Rejectable
- (2) Preservice Inspection
- (3) Includes item B15.70 valves, NPS 4 inch and smaller, within examination boundary.
- (4) 2 CRD flanges found leaking at various rates. Evaluation concluded acceptable for continued service.
- (5) One LPRM flange found leaking. Flange tightened, leak stopped.
- (6) Indication required evaluation under IWB-3600. Evaluation concluded indication was acceptable for continued service without repair.
- (7) Flange found leaking. flange tightened, leak stopped.

- END OF REPORT-

APPENDIX B

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NIS-2 OWNER'S REPORTS

This appendix summarizes ASME Section XI repair or replacement work performed between July 10, 1997 and June 13, 1998. The status of the NIS-2 Owner's Report is stated for each repair and replacement work performed.

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APPENDIX B

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ASME SECTION XI REPAIR AND REPLACEMENT LISTING FOR WNP-2 REFUELING OUTAGE RF98

21331 BPR port Made back to bornet seal weld for spare valve S/N 14 Valve 21444 DVK 203 Replaced pipe plug for cooling coll RPA-CC-1A Cooling Coll 21445 DVK 800 Replaced pipe plug for cooling coll RPA-CC-2 Cooling Coll 21451 DVK 800 Replaced pipe plug for cooling coll RPA-CC-3 Cooling Coll 21452 DVH 101 Replaced pipe plug for cooling coll RPA-CC-1 Cooling Coll 21452 DVT 101 Replaced pipe plug for cooling coll RPA-CC-11 Cooling Coll 21462 HGW 301 Replaced valve SW-49 Piping 21462 HGW 301 Replaced valve SW-49 Piping 21462 HGB 501 Installed dubma sociated with an investive looking for valve RC-V-40 Valve 21463 JGB 201 Installed outernal bypass for pressure looking for valve RC-V-40 Valve 21463 JGB 201 Installed outernal bypass for pressure looking for valve RC-V-40 Valve 21463 JGB 201 Installed outernal bypass for pressure looking for valve RC-V-40 Valve 21464 HCM 300 Installed outernal bypass for pressure looking for valve RC-V-40 Valve 21464 HCM 300	<u>, </u>	PLAN NO WOT NO	COMPONENT NUMBER AND WORK DESCRIPTION	CODE COMP	R&R REPORTED IN
2:4444 DVH 203 Replaced pipe plug for cooling coil WMA-CC-S3A/1 Cooling Coil 2:445 DVG 801 Replaced pipe plug for cooling coil RA-CC-1A Cooling Coil 2:445 DVG 801 Replaced pipe plug for cooling coil RA-CC-3 Cooling Coil 2:445 DVH 101 Replaced pipe plug for cooling coil RA-CC-1 Cooling Coil 2:445 DVH 101 Replaced pipe plug for cooling coil RA-CC-1 Cooling Coil 2:445 DVH 101 Installed tubing associated with air controller for valve RCC-V-40 Valve 2:4462 HBB 501 Installed ottornal bypass for pressure locking for valve RCC-V-40 Valve 2:4483 JBD 501 Installed ottornal bypass for pressure locking for valve RCC-V-40 Valve 2:4484 HGN 101 Prefabricated external bypass for pressure locking for valve RCC-V-40 Valve 2:4484 HGN 101 Prefabricated external bypass for pressure locking for valve RCC-V-15 Valve 2:4484 HGN 101 Prefabricated external bypass for pressure locking for valve RCC-V-40 Valve 2:4484 HGN 101 Prefabricated external bypass for pressure locking for valve RCC-V-15 Valve 2:4484 HGN 101 Prefabricated external bypass for p) ;	2-1301 * DN 850	Replaced valve CAC-V-58A	Piping	RF98 Summary Report
2:1444 DV/B 803 Replaced pipe plug for cooling coil WAA-CC-S3A/1 Cooling Coil 2:1450 DV/G 801 Replaced pipe plug for cooling coil RAA-CC-1 Cooling Coil 2:1451 DV/H 001 Replaced pipe plug for cooling coil RAA-CC-1 Cooling Coil 2:1452 DVH 101 Replaced pipe plug for cooling coil RAA-CC-1 Cooling Coil 2:1452 DVT 101 Installed tubing associated with air controller for valve RICP-CV-15 Tubing 2:1452 H 701 Installed valve SWW-49 Piping 2:1462 H 68 504 Prefabricated external bypass for pressure locking for valve RCC-V-40 Valve 2:1463 JBP 601 Installed oxternal bypass for pressure locking for valve RICV-V42A Valve 2:1464 H 68 504 Prefabricated external bypass for pressure locking for valve RICV-40 Valve 2:1463 JBP 601 Installed oxternal bypass for pressure locking for valve RICV-42A Valve 2:1464 H 68 502 Replaced relief valve SN N 83790-00-0053 Relief Valve 2:1464 H 68 502 Replaced relief valve MS-RV-2A Piping 2:1464 H 68 502 Replaced relief valve MS-RV-2B Piping 2:1464 <	2	2-1381 BPR 90	Made body to bonnet seal weld for spare valve S/N 14	Valve	RF98 Summary Report
2:1445 DVG 901 Replaced pipe plug for cooling coil RPA-CC-1A Cooling Coil 2:1450 DVG 901 Replaced pipe plug for cooling coil RPA-CC-2 Cooling Coil 2:1451 DVH 101 Replaced pipe plug for cooling coil RPA-CC-1 Cooling Coil 2:1452 DVH 101 Replaced pipe plug for cooling coil RPA-CC-1 Cooling Coil 2:1452 DVH 101 Replaced vibe SVM-49 Valve 2:1451 HVM 201 Replaced vibe SVM-49 Valve 2:1482 HGB 501 Installed oxternal bypass for pressure locking for valve RCC-V-40 Valve 2:1483 JBD 601 Installed external bypass for pressure locking for valve RCC-V-40 Valve 2:1483 JBD 601 Installed external bypass for pressure locking for valve RCC-V-40 Valve 2:1484 JBM 601 Installed external bypass for pressure locking for valve RCC-V-40 Valve 2:1484 JBM 601 Installed external bypass for pressure locking for valve RCC-V-40 Valve 2:1484 JBM 601 Installed external bypass for pressure locking for valve RCC-V-15 Valve 2:1484 JBM 601 Installed external bypass for pressure locking for valve RCC-V-15 Valve 2:			•	Cooling Coil	RF98 Summary Report
2:1450 DVG 601 Replaced pipe plug for cooling coil RRA-CC-2 Cooling Coil 2:1451 DVH 601 Replaced pipe plug for cooling coil RRA-CC-1 Cooling Coil 2:1452 DDT 101 Installed tubing associated with all controller for valve RCIC-PCV-15 Tubing 2:1472 GU 701 Installed tubing associated with all controller for valve RCIC-PCV-15 Tubing 2:1422 DDT 101 Installed valve SWV-49 Paplaced valve SWV-49 Valve 2:1422 HGB 501 Installed valve SWV-49 Valve Valve 2:1422 HGB 501 Installed valve SWV-49 Valve Valve 2:1423 JGP 401 Prefabricated coternal bypass for pressure locking for valve RCC-V-40 Valve 2:1433 JGP 401 Prefabricated valve Mprass for pressure locking for valve RCS-V-15 Valve 2:1434 HCN 101 Prefabricated valve Mprass for pressure locking for valve RCS-V-40 Valve 2:1444 HCN 101 Prefabricated valve Mprass for pressure locking for valve RCS-V-15 Valve 2:1444 HCN 102 Prefabricated valve MMrA-V-2A Valve 2:1444 HCN 102 Prefabricated valve MMS-RV-18 Piping 2				-	RF98 Summary Report
2:1451 DVH 101 Replaced pipe plug for cooling coil RRA-CC-5 Cooling Coil 2:1452 DVH 101 Replaced pipe plugs for cooling coil RRA-CC-11 Cooling Coil 2:1452 DVH 101 Replaced vipe SVM-49 Piping 2:1451 HK9 504 Prefabricated external bypass for pressure locking for valve RCC-V-40 Valve 2:1462 HK9 504 Prefabricated external bypass for pressure locking for valve RCK-V-40 Valve 2:1462 HK9 504 Installed oxternal bypass for pressure locking for valve RHR-V-42A Valve 2:1463 JBP 601 Installed oxternal bypass for pressure locking for valve RCK-V-40 Valve 2:1464 JBM 601 Installed oxternal bypass for pressure locking for valve RHR-V-42A Valve 2:1464 JBM 601 Installed oxternal bypass for pressure locking for valve RHR-V-15 Valve 2:1469 HCS 100 Replaced reliel valve MS-RV-48 Piping 2:1464 HCS 100 Replaced reliel valve MS-RV-48 Piping 2:1464 HCS 102 Replaced reliel valve MS-RV-48 Piping 2:1465 HCS 102 Replaced reliel valve MS-RV-48 Piping 2:1464 HCS 102 Replaced				Cooling Coil	RF98 Summary Report
2-1422DVH 101Replaced pipe plugs for cooling coll RRA-CC-11Cooling Coll2-1422DDT 101Installed bubb to bonnet seal weld for spare valves S/N 13Valve2-1441HRW 301Replaced valve SW-V49Piping2-1442HGB 501Installed valve site seal weld for spare valves S/N 13Valve2-1442HGB 501Installed valve site searce valves S/N 140Valve2-1442HGB 501Installed valve site searce valves S/N 140Valve2-1442HGB 501Installed valve site searce valves S/N 140Valve2-1443HGD 501Installed valve site searce locking for valve RRC-V-40Valve2-1444HGN 101Prefabricated valves searce locking for valve RHR-V-42AValve2-1444HGN 101Prefabricated valves S/N N83780-00-0053Relief Valve2-1444HGN 200Replaced relief valve S/N N83780-00-0053Relief Valve2-1445HGN 200Replaced relief valve S/N N83780-00-0053Relief Valve2-1445HGN 200Replaced relief valve S/N N43780Piping2-1445HGN 200Replaced relief valve S/N-2APiping2-1445HGN 200Replaced relief valve S/N-10Piping2-1445HGN 200Replaced relief valve S/N-105Piping2-1446HGN 200Replaced relief valve S/N-105Piping2-1445HGN 200Replaced relief valve S/N-102Piping2-1446HGN 200Replaced relief valve S/R-V-30Piping2-1445HGN 200Replaced relief valve S/R-V-				-	RF98 Summary Report
2-1462 * DDT 101 Installed tubing associated with air controller for valve RCIC-PCV-15 Tubing 2-1475 GLV 701 Made body to bonnet seal weld for spare valve S/N 13 Valve 2-1481 * HFW 30 Replaced valve S/V-V-49 Piping 2-1482 * HGB 501 Prefabricated external bypass for pressure locking for valve RCC-V-40 Valve 2-1482 * JGP 401 Prefabricated external bypass for pressure locking for valve RC-V-40 Valve 2-1483 * JBD 501 Installed external bypass for pressure locking for valve RC-V-40 Valve 2-1484 * JBD 601 Installed external bypass for pressure locking for valve RC-V-40 Valve 2-1484 * IAN Installed external bypass for pressure locking for valve RC-V-15 Valve 2-1484 * IAN Replaced relief valve S/N N63790-00-0033 Relief Valve 2-1492 HCS 402 Replaced relief valve MS-RV-45 Piping 2-1494 HCS 502 Replaced relief valve MS-RV-45 Piping 2-1494 HCS 502 Replaced relief valve MS-RV-50 Piping 2-1495 HCS 102 Replaced relief valve MS-RV-10 Piping 2-1494 HCS 502 Repl					RF98 Summary Report
2:1475 GLV 701 Made body to bonnet seal weld for spare valve S/N 13 Valve 2:1481* HRW 30 Replaced valve S/V-V-49 Valve 2:1482* HGB 50 Installed external bypass for pressure locking for valve RCC-V-40 Valve 2:1482* HGB 501 Installed external bypass for pressure locking for valve RHR-V-42A Valve 2:1482* JBD 501 Installed external bypass for pressure locking for valve RHR-V-42A Valve 2:1484* HCN 101 Prefabricated external bypass for pressure locking for valve HPCS-V-15 Valve 2:1484 HCN 101 Prefabricated external bypass for pressure locking for valve HPCS-V-15 Valve 2:1484 HCN 102 Replaced rolied valve MS-RV-18 Piping 2:1480 HCS 402 Replaced rolied valve MS-RV-18 Piping 2:1481 HCS 502 Replaced rolied valve MS-RV-38 Piping 2:1482 HCS 502 Replaced rolied valve MS-RV-38 Piping 2:1484 HCT 502 Replaced rolied valve MS-RV-30 Piping 2:1484 HCT 502 Replaced rolied valve MS-RV-30 Piping 2:1484 HCT 502 Replaced rolied valve MS-RV-37 Piping <td></td> <td></td> <td></td> <td>-</td> <td>RF98 Summary Report</td>				-	RF98 Summary Report
2:1481* HFW 301 Replaced valve SW-V-49 Pipling 2:1482* HGB 504 Prefabricated external bypass for pressure locking for valve RCC-V-40 Valve 2:1482* JGP 401 Prefabricated external bypass for pressure locking for valve RR-V-42A Valve 2:1482* JGP 401 Prefabricated external bypass for pressure locking for valve RR-V-42A Valve 2:1484* JGD 101 Prefabricated external bypass for pressure locking for valve RR-V-42A Valve 2:1484* HCN 101 Prefabricated external bypass for pressure locking for valve RR-V-42A Valve 2:1484 HCN 102 Replaced relief valve S/N NS370-00-0033 Relief Valve 2:1491 HCS 402 Replaced relief valve MS-RV-2A Piping 2:1492 HCS 602 Replaced relief valve MS-RV-3B Piping 2:1493 HCS 602 Replaced relief valve MS-RV-3B Piping 2:1494 HCT 002 Replaced relief valve MS-RV-3B Piping 2:1495 HCS 602 Replaced relief valve MS-RV-3D Piping 2:1494 HCS 602 Replaced relief valve MS-RV-1D Piping 2:1495 HCS 702 Replaced relief valve MS-RV-1D Pipi				-	RF98 Summary Report
2-1482* HGB 504 Prefabricated external bypass for pressure locking for valve RCC-V-40 Valve 2-1482* HGB 501 Installed external bypass for pressure locking for valve RRCV-420 Valve 2-1483* JBD 501 Installed external bypass for pressure locking for valve HRCV-42A Valve 2-1484* HCN 101 Prefabricated external bypass for pressure locking for valve HRCV-42A Valve 2-1484* HCN 101 Prefabricated external bypass for pressure locking for valve HRCS-V-15 Valve 2-1484 HCN 102 Refunctor field valve MS-RV-2A Piping 2-1490 HCS 408 Refunctor field valve MS-RV-3B Piping 2-1492 HCS 802 Replaced refiel valve MS-RV-4B Piping 2-1494 HCT 020 Replaced refiel valve MS-RV-3B Piping 2-1495 HCT 103 Replaced refiel valve MS-RV-3C Piping 2-1496 HCT 202 Replaced refiel valve MS-RV-3D Piping 2-1497 HCS 502 Replaced refiel valve MS-RV-10 Piping 2-1498 HCT 302 Replaced refiel valve MS-RV-10 Piping 2-1499 HCS 502 Replaced level swith RCIC-LS-N010 Piping <					RF98 Summary Report
2-1482 HGB 501 Installed external bypass for pressure locking for valve RHR-V-42A Valve 2-1483 JGP 401 Prefabricated external bypass for pressure locking for valve RHR-V-42A Valve 2-1484 HCN 101 Prefabricated external bypass for pressure locking for valve RHR-V-42A Valve 2-1484 HCN 101 Prefabricated external bypass for pressure locking for valve RHR-V-42A Valve 2-1484 HCN 101 Prefabricated external bypass for pressure locking for valve RHR-V-42A Valve 2-1484 HCN 102 Replaced relief valve SN-N5790-00-0053 Relief Valve 2-1492 HCS 402 Replaced relief valve MS-RV-3B Piping 2-1493 HCS 502 Replaced relief valve MS-RV-3B Piping 2-1494 HCT 002 Replaced relief valve MS-RV-3C Piping 2-1495 HCT 103 Replaced relief valve MS-RV-3C Piping 2-1494 HCS 502 Replaced relief valve MS-RV-3D Piping 2-1494 HCS 602 Replaced relief valve MS-RV-3D Piping 2-1494 HCS 702 Replaced plug for valve CRD-V-102 Piping 2-1494 HCS 602 Replaced plug for valve CRD-V-102/14111					RF98 Summary Report
2:1433 • JGP 401 Prefabricated external bypass for pressure locking for valve RHR-V-42A Valve 2:1433 • JBD 501 Installed external bypass for pressure locking for valve RHR-V-42A Valve 2:1434 • IRVN 101 Prefabricated external bypass for pressure locking for valve RPCS-V-15 Valve 2:1439 • HCN 102 Refurbished relief valve S/N N83790-00-0033 Relief Valve 2:1439 • HCS 402 Replaced relief valve S/N N83790-00-0033 Piping 2:1439 • HCS 402 Replaced relief valve MS-RV-2A Piping 2:1439 • HCS 502 Replaced relief valve MS-RV-3B Piping 2:1439 • HCS 502 Replaced relief valve MS-RV-3B Piping 2:1439 • HCS 502 Replaced relief valve MS-RV-3C Piping 2:1439 • HCS 502 Replaced relief valve MS-RV-3C Piping 2:1439 • HCS 502 Replaced relief valve MS-RV-3D Piping 2:1439 • HCS 702 Replaced relief valve MS-RV-3D Piping 2:1439 • HCS 703 Replaced plugs for valve CRD-V-102/1411 Valve 2:1505 • HBZ 201 Replaced plugs for valve CRD-V-102/1411 Valve 2:1506 • GMG 101 Replaced Local Power Range Monitoring (LPRM) incore assemblies RPV 2:1511 • MCM 402 Replaced v					RF98 Summary Report
2-1483JBD 501Installed external bypass for pressure locking for valve RHR-V-42AValve2-1484HCN 101Prefabricated external bypass for pressure locking for valve HPCS-V-15Valve2-1484BM 501Installed external bypass for pressure locking for valve HPCS-V-15Valve2-1484BM 501Installed external bypass for pressure locking for valve HPCS-V-15Valve2-1480HCS 408Refurbished relief valve S/N N63790-00-0053Relief Valve2-1491HCS 402Replaced relief valve MS-RV-3BPiping2-1492HCS 602Replaced relief valve MS-RV-3BPiping2-1493HCS 502Replaced relief valve MS-RV-3BPiping2-1494HCT 002Replaced relief valve MS-RV-3BPiping2-1495HCS 502Replaced relief valve MS-RV-3DPiping2-1496HCS 502Replaced relief valve MS-RV-3DPiping2-1497HCS 602Replaced relief valve MS-RV-1DPiping2-1498HCS 702Replaced relief valve MS-RV-1DPiping2-1505HBZ 201Replaced relief valve MS-RV-1DPiping2-1506GMG 101Replaced felleg for valve CRD-V-102/1411Valve2-1507HCM 402Replaced plugs for valve CRD-V-102/1413Valve2-1508HMV 101Replaced Pilog Valve CRD-V-20Piping2-1511*KCM 701Prefabricated to replace valve PSR-V-X77A1Piping2-1512*KCM 701Prefabricated to replace valve PSR-V-X77A1Piping2-1514HNJ 901Replaced r					RF98 Summary Report
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2-1484*JBM 901Installed external bypass for pressure locking for valve HPCS-V-15Valve2-1480HCS 408Refurbished relief valve S/N N83790-00-0053Relief Valve2-1491HCS 402Replaced relief valve MS-RV-2APiping2-1492HCS 802Replaced relief valve MS-RV-3BPiping2-1494HCS 902Replaced relief valve MS-RV-4BPiping2-1494HCT 002Replaced relief valve MS-RV-4BPiping2-1495HCT 103Replaced relief valve MS-RV-4BPiping2-1496HCS 502Replaced relief valve MS-RV-5CPiping2-1497HCS 602Replaced relief valve MS-RV-5CPiping2-1498HCT 302Replaced relief valve MS-RV-5CPiping2-1499HCS 702Replaced relief valve MS-RV-5DPiping2-1505HCM 401Replaced plugs for valve CRD-V-102/11411Valve2-1506*HCM 401Replaced plugs for valve CRD-V-102/11411Valve2-1509HNV 101Replaced plugs for valve CRD-V-102/1413Valve2-1511*KCM 801Prefabricated to replace valve RRC-V-20Piping2-1512*KCM 701Prefabricated to replace valve RRC-V-20Piping2-1514HJJ 801Replaced valve RRC-V-20Piping2-1515GYD 101Replaced valve RRC-V-20Piping2-1514HJJ 801Replaced valve RRC-V-20Piping2-1515GYD 101Replaced valve RRC-V-20Piping2-1516GYD 101Replaced valve RRC-V-20Piping </td <td></td> <td></td> <td></td> <td></td> <td>RF98 Summary Report</td>					RF98 Summary Report
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2:1496HCS 502Replaced relief valve MS-RV-3CPiping2:1497HCS 602Replaced relief valve MS-RV-5CPiping2:1498HCT 302Replaced relief valve MS-RV-5DPiping2:1498HCT 302Replaced relief valve MS-RV-3DPiping2:1505HBZ 201Replaced level switch RCIC-LS-N010Piping2:1506HCM 401Replaced plugs for valve CRD-V-102A/1411Valve2:1507HCM 402Replaced plugs for valve CRD-V-102A/1411Valve2:1508HMV 101Replaced logs for valve CRD-V-102A/1413Valve2:1509HMV 101Replaced Local Power Range Monitoring (LPRM) Incore assembliesRPV2:1511KCM 801Prefabricated to replace valve RRC-V-20Piping2:1512HTV 801Replaced valve RRC-V-20Piping2:1513HNJ 801Replaced relief valve SLC-RV-29BPiping2:1514HNJ 901Replaced relief valve SLC-RV-29BPiping2:1515GYD 001Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2:1516GYD 201Replaced suction strainers RHR-ST-5A and 3B for pump RHR-P-2CPiping2:1517GYD 001Replaced suction strainers RHR-ST-2A and 3B for pump RHR-P-2CPiping2:1518GYD 201Replaced rupture disc for CAC-RD-1APiping2:1520KKB 901Replaced rupture disc for CAC-RD-1BPiping2:1521JKT 801Replaced rupture disc for CAC-RD-1BPiping2:1522JKT 901Replaced rupture disc for CAC-RD-1B	1	2-1494 HCT 00	Replaced relief valve MS-RV-4B	Piping	RF98 Summary Report
2-1497HCS 602Replaced relief valve MS-RV-SCPiping2-1498HCT 302Replaced relief valve MS-RV-1DPiping2-1499HCS 702Replaced relief valve MS-RV-3DPiping2-1499HCS 702Replaced relief valve MS-RV-3DPiping2-1505HBZ 201Replaced plugs for valve CRD-V-101A/1411Valve2-1506HCM 401Replaced plugs for valve CRD-V-102A/1411Valve2-1507HCM 402Replaced plugs for valve CRD-V-102A/1411Valve2-1509HMV 101Replaced Local Power Range Monitoring (LPRM) Incore assembliesRPV2-1511KCM 801Prefabricated to replace valve PRC-V-20Piping2-1511KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1512KCM 701Prefabricated to SLC-RV-29APiping2-1514HNJ 901Replaced relief valve SLC-RV-29APiping2-1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2CPiping2-1518GYD 201Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2-1519GYD 301Replaced suction strainers HRC-ST-2 and 3 for pump HPCS-P-1Piping2-1519GYD 301Replaced rupture disc for CAC-RD-1APiping2-1520KKB 801Replaced rupture disc for CAC-RD-1BPiping2-1521JKT 801Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501 <td< td=""><td>2</td><td>2-1495 HCT 10</td><td>Replaced relief valve MS-RV-5B</td><td>Piping</td><td>RF98 Summary Report</td></td<>	2	2-1495 HCT 10	Replaced relief valve MS-RV-5B	Piping	RF98 Summary Report
2-1498HCT 302Replaced relief valve MS-RV-1DPiping2-1499HCS 702Replaced relief valve MS-RV-3DPiping2-1505*HBZ 201Replaced lougs for valve CRD-V-101/V1411Valve2-1507*HCM 401Replaced plugs for valve CRD-V-102/V1411Valve2-1508*GMG 101Replaced plugs for valve CRD-V-102/V1413Valve2-1509HMV 101Replaced local Power Range Monitoring (LPRM) incore assembliesRPV2-1511*KCM 801Replaced to replace valve RRC-V-20Piping2-1511*HTV 801Replaced valve RRC-V-20Piping2-1512*KCM 701Prefabricated to replace valve RRC-V-20Piping2-1513HJN 801Replaced relief valve SLC-RV-29APiping2-1514HTV 801Replaced relief valve SLC-RV-29APiping2-1515GYD 101Replaced relief valve SLC-RV-29BPiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2APiping2-1515GYD 001Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1519GYD 301Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1519GYD 301Replaced rupture disc for CAC-RD-1APiping2-1520KKB 901Replaced rupture disc for CAC-RD-1BPiping2-1521JKT 801Replaced rupture disc for CAC-RD-1BPiping2-1524GTM 702Replaced rupture disc for CAC-RD-1BPiping2-1525HNL 301Replaced rupture disc for	2	2-1496 HCS 50	Replaced relief valve MS-RV-3C	Piping	RF98 Summary Report
2-1499HCS 702Replaced relief valve MS-RV-3DPiping2-1505*HBZ 201Replaced level switch RCIC-LS-N010Piping2-1505*HCM 401Replaced plugs for valve CRD-V-101A/1411Valve2-1507*HCM 402Replaced plugs for valve CRD-V-102A/1411Valve2-1508GMG 101Replaced plugs for valve CRD-V-102A/1413Valve2-1509HMV 101Replaced Local Power Range Monitoring (LPRM) Incore assembliesRPV2-1511*KCM 801Prefabricated to replace valve RRC-V-20Piping2-1511*HTV 901Replaced valve RRC-V-20Piping2-1512*HTV 801Replaced valve PSR-V-X77A/1Piping2-1513HNJ 801Replaced relief valve SLC-RV-29APiping2-1514HNJ 901Replaced relief valve SLC-RV-29APiping2-1515GYD 101Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2APiping2-1516GYD 201Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2CPiping2-1518GYD 201Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2CPiping2-1519GYD 301Replaced rupture disc for CAC-RD-1APiping2-1520KKB 901Replaced rupture disc for CAC-RD-1APiping2-1521JKT 901Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Srial No N60597-00-0003Relief Valve2-1525HNL 301R	1	2-1497 HCS 60	Replaced relief valve MS-RV-5C	Piping	RF98 Summary Report
2-1505 *HBZ 201Replaced level switch RCIC-LS-N010Piping2-1506 *HCM 401Replaced plugs for valve CRD-V-101A/1411Valve2-1507 *HCM 402Replaced plugs for valve CRD-V-102A/1411Valve2-1508 *GMG 101Replaced plugs for valve CRD-V-102A/1411Valve2-1509 *HMV 101Replaced plugs for valve CRD-V-102A/1443Valve2-1509 *HMV 101Replaced Local Power Range Monitoring (LPRM) Incore assembliesRPV2-1511 *KCM 801Prefabricated to replace valve RC-V-20Piping2-1512 *KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1513 *HNJ 801Replaced relief valve SIC-RV-29APiping2-1514 *HNJ 801Replaced relief valve SIC-RV-29BPiping2-1515 GYD 101Replaced suction strainers RHR-ST-5A and 3B for pump RHR-P-2APiping2-1516 GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517 GYD 001Replaced suction strainers LPCS-ST-2 and 3 for pump RHR-P-2CPiping2-1518 GYD 201Replaced suction strainers LPCS-ST-2 and 3 for pump RHR-P-2BPiping2-1520 KKB 901Replaced rupture disc for CAC-RD-1APiping2-1521 JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522 JKT 901Replaced rupture disc for CAC-RD-1APiping2-1523 JWF 501Replaced rupture disc for CAC-RD-1BPiping2-1524 GTM 702Replaced rupture disc for CAC-RD-1BPiping2-1525 HNL 301Replaced rupture disc for CCH-RD	1	2-1498 HCT 30	Replaced relief valve MS-RV-1D	Piping	RF98 Summary Report
2-1506*HCM 401Replaced plugs for valve CRD-V-101A/1411Valve2-1507*HCM 402Replaced plugs for valve CRD-V-102A/1411Valve2-1508*GMG 101Replaced plugs for valve CRD-V-102A/1443Valve2-1509HMV 101Replaced Local Power Range Monitoring (LPRM) incore assembliesRPV2-1511*KCM 801Prefabricated to replace valve RRC-V-20Piping2-1511*HTV 901Replaced valve RRC-V-20Piping2-1512*KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1513HNJ 801Replaced valve PSR-V-X77A/1Piping2-1514HTV 801Replaced relief valve SLC-RV-29BPiping2-1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517GYD 001Replaced suction strainers LPCS-ST-2 and 3 for pump RHR-P-2CPiping2-1519GYD 201Replaced suction strainers LPCS-ST-2 and 3 for pump RHR-P-2CPiping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1APiping2-1524GTM 702Replaced rupture disc for CCH-RD-1BPiping2-1525HNL 301Replaced rupture disc for CAC-RD-1BPiping2-1526JWF 501Replaced rupture disc for CAC-RD-1BPiping2-1526JWF 501Replaced rupture disc for CAC-RD-1BPiping2-1526H	2	2-1499 HCS 70	Replaced relief valve MS-RV-3D	Piping	RF98 Summary Report
2-1506*HCM 401Replaced plugs for valve CRD-V-101A/1411Valve2-1507*HCM 402Replaced plugs for valve CRD-V-102A/1411Valve2-1508*GMG 101Replaced plugs for valve CRD-V-102A/1443Valve2-1509HMV 101Replaced Local Power Range Monitoring (LPRM) incore assembliesRPV2-1511*KCM 801Prefabricated to replace valve RRC-V-20Piping2-1511*HTV 901Replaced valve RRC-V-20Piping2-1512*KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1513HNJ 801Replaced valve PSR-V-X77A/1Piping2-1514HTV 801Replaced relief valve SLC-RV-29BPiping2-1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517GYD 001Replaced suction strainers LPCS-ST-2 and 3 for pump RHR-P-2CPiping2-1519GYD 201Replaced suction strainers LPCS-ST-2 and 3 for pump RHR-P-2CPiping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1APiping2-1524GTM 702Replaced rupture disc for CAC-RD-1BPiping2-1525HNL 301Replaced rupture disc for CAC-RD-1BPiping2-1526JWF 501Replaced rupture disc for CAC-RD-1BPiping2-1526HNL 301Replaced rupture disc for CAC-RD-1BValve2-1526HN	1	2-1505 * HBZ 20	Replaced level switch RCIC-LS-N010	Piping	RF98 Summary Report
2-1507 *HCM 402Replaced plugs for valve CRD-V-102A/1411Valve2-1508 *GMG 101Replaced plugs for valve CRD-V-102A/1443Valve2-1509HMV 101Replaced Local Power Range Monitoring (LPRM) incore assembliesRPV2-1511 *KCM 801Prefabricated to replace valve RRC-V-20Piping2-1511 *KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1512 *KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1513HNJ 801Replaced relief valve SLC-RV-29APiping2-1514HNJ 901Replaced relief valve SLC-RV-29BPiping2-1515GYD 101Replaced suction strainers RHR-ST-3A and 5B for pump RHR-P-2APiping2-1516GYD 201Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1519GYD 201Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2CPiping2-1519GYD 201Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1519GYD 201Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2CPiping2-1519GYD 201Replaced rupture disc for CAC-RD-1APiping2-1520KKB 901Replaced rupture disc for CAC-RD-1APiping2-1521JKT 801Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced parts for valve SLC-V-4BValve2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced			-		RF98 Summary Report
2-1508 *GMG 101Replaced plugs for valve CRD-V-102A/1443Valve2-1509HMV 101Replaced Local Power Range Monitoring (LPRM) Incore assembliesRPV2-1511 *KCM 801Prefabricated to replace valve RRC-V-20Piping2-1511 *HTV 901Replaced valve RRC-V-20Piping2-1512 *KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1512 *KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1512 *HTV 801Replaced relief valve SLC-RV-29APiping2-1513HNJ 801Replaced relief valve SLC-RV-29BPiping2-1516GYD 101Replaced suction strainers RHR-ST-3A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1519GYD 001Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2CPiping2-1519GYD 201Replaced suction strainers LPCS-ST-2 and 3 for pump RHR-P-2BPiping2-1520KKB 901Replaced rupture disc for CAC-RD-1APiping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CCH-RD-1BPiping2-1525HNL 301Replaced rupture disc for CCH-RD-1BPiping2-1526JWZ 801Replaced rupture disc for CM-RD-1BPiping2-1525HNL 301Replaced rupture disc for CM-RD-1BValve2-1526JWZ 801Replaced rupture disc for rupro PipingValve2-152				Valve	RF98 Summary Report
2-1509HMV 101Replaced Local Power Range Monitoring (LPRM) Incore assembliesRPV2-1511 *KCM 801Prefabricated to replace valve RRC-V-20Piping2-1511 *HTV 901Replaced valve RRC-V-20Piping2-1512 *KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1512 *HTV 801Replaced valve PSR-V-X77A/1Piping2-1513HNJ 801Replaced relief valve SLC-RV-29APiping2-1514HNJ 901Replaced relief valve SLC-RV-29BPiping2-1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517GYD 001Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2-1519GYD 101Replaced suction strainers HPCS-ST-2 and 3 for pump HPCS-P-1Piping2-1519GYD 301Replaced rupture disc for RCIC-RD-1 and RCIC-RD-2Piping2-1520KKB 901Replaced rupture disc for CAC-RD-1APiping2-1521JKT 801Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve SIc-V-4BValve2-1525HNL 301Replaced rupture disc for hinge pin cover plate for valve LPCS-V-3Valve2-1526JWZ 801Replaced bonnet for valve MD-V-71Valve2-1527HHH 601Replaced bonnet for valve MD-V-71Valve2-1528KVT 901Replaced bonnet for valve S/N N63790-00-0055Re				Valve	RF98 Summary Report
2:1511*KCM 801Prefabricated to replace valve RRC-V-20Piping2:1511*HTV 901Replaced valve RRC-V-20Piping2:1512*KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2:1512*HTV 801Replaced valve PSR-V-X77A/1Piping2:1512*HTV 801Replaced relief valve SLC-RV-29APiping2:1513HNJ 801Replaced relief valve SLC-RV-29APiping2:1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2:1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2:1517GYD 001Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2:1518GYD 201Replaced suction strainers RHR-ST-2 and 3 for pump LPCS-P-1Piping2:1520KKB 901Replaced suction strainers LPCS-ST-2 and 3 for pump HPCS-P-1Piping2:1521JKT 801Replaced rupture disc for CAC-RD-1APiping2:1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2:1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2:1524GTM 702Refurbished spare relief valve SLC-V-4BValve2:1525HNL 301Replaced parts for valve SLC-V-4BValve2:1524KVT 901Replaced bornet for valve SLC-V-4BValve2:1524GTM 702Refurbished spare relief valve Scient No N60597-00-0003Relief Valve2:1526HNL 301Replaced parts for valve SLC-V-4BValve2:1526 <td></td> <td></td> <td></td> <td></td> <td>RF98 Summary Report</td>					RF98 Summary Report
2:1511*HTV 901Replaced valve RRC-V-20Piping2:1512*KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2:1512*HTV 801Replaced valve PSR-V-X77A/1Piping2:1512*HTV 801Replaced relief valve SLC-RV-29APiping2:1513HNJ 801Replaced relief valve SLC-RV-29BPiping2:1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2:1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2:1517GYD 001Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2CPiping2:1518GYD 201Replaced suction strainers RHR-ST-2A and 3 for pump LPCS-P-1Piping2:1519GYD 201Replaced suction strainers LPCS-ST-2 and 3 for pump HPCS-P-1Piping2:1520KKB 901Replaced rupture disc for CAC-RD-1A and RCIC-RD-2Piping2:1521JKT 801Replaced rupture disc for CAC-RD-1BPiping2:1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2:1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2:1525HNL 301Replaced parts for valve SLC-V-4BValve2:1526JWZ 801Replaced bornet for valve MD-V-71Valve2:1522C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2:1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve					RF98 Summary Report
2-1512*KCM 701Prefabricated to replace valve PSR-V-X77A/1Piping2-1512*HTV 801Replaced valve PSR-V-X77A/1Piping2-1512*HTV 801Replaced relief valve SLC-RV-29APiping2-1513HNJ 901Replaced relief valve SLC-RV-29BPiping2-1514HNJ 901Replaced relief valve SLC-RV-29BPiping2-1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517GYD 001Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2-1518GYD 201Replaced suction strainers HPCS-ST-2 and 3 for pump HPCS-P-1Piping2-1520KKB 901Replaced suction strainers HPCS-ST-2 and 3 for pump HPCS-P-1Piping2-1521JKT 801Replaced rupture disc for CAC-RD-1A and RCIC-RD-2Piping2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CAC-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced parts for valve SLC-V-4BValve2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1525HNL 301Replaced parts for valve MD-V-71Valve2-1526KVT 901Replaced bonnet for valve MD-V-71Valve2-1526KVT 901Replaced bonnet for valve MD-V-71Valve2-1			-		RF98 Summary Report
2-1512*HTV 801Replaced valve PSR-V-X77A/1Piping2-1513HNJ 801Replaced relief valve SLC-RV-29APiping2-1514HNJ 901Replaced relief valve SLC-RV-29BPiping2-1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517GYD 001Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2CPiping2-1518GYD 201Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2-1519GYD 301Replaced suction strainers LPCS-ST-2 and 3 for pump LPCS-P-1Piping2-1520KKB 901Replaced rupture disc for RCIC-RD-1 and RCIC-RD-2Piping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1523JWF 501Replaced rupture disc for CAC-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced rupture disc for index pin cover plate for valve LPCS-V-3Valve2-1526ZWZ 801Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1524C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve			•		RF98 Summary Report
2-1513HNJ 801Replaced relief valve SLC-RV-29APiping2-1514HNJ 901Replaced relief valve SLC-RV-29BPiping2-1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517GYD 001Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2-1518GYD 201Replaced suction strainers LPCS-ST-2 and 3 for pump LPCS-P-1Piping2-1519GYD 301Replaced suction strainers HPCS-ST-2 and 3 for pump HPCS-P-1Piping2-1520KKB 901Replaced rupture disc for CAC-RD-1 and RCIC-RD-2Piping2-1521JKT 801Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced parts for valve SLC-V-4BValve2-1526JWZ 801Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1523C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve					RF98 Summary Report
2-1514HNJ 901Replaced relief valve SLC-RV-29BPiping2-1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517GYD 001Replaced suction strainers RHR-ST-3A and 4B for pump RHR-P-2CPiping2-1518GYD 201Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2-1519GYD 301Replaced suction strainers LPCS-ST-2 and 3 for pump LPCS-P-1Piping2-1520KKB 901Replaced rupture disc for RCIC-RD-1 and RCIC-RD-2Piping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced parts for valve SLC-V-4BValve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1523C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve			•		RF98 Summary Report
2-1515GYD 101Replaced suction strainers RHR-ST-5A and 5B for pump RHR-P-2APiping2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517GYD 001Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2-1518GYD 201Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2-1519GYD 301Replaced suction strainers LPCS-ST-2 and 3 for pump LPCS-P-1Piping2-1520KKB 901Replaced rupture disc for RCIC-RD-1 and RCIC-RD-2Piping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve			•		RF98 Summary Report
2-1516GYC 901Replaced suction strainers RHR-ST-3A and 3B for pump RHR-P-2BPiping2-1517GYD 001Replaced suction strainers RHR-ST-3A and 4B for pump RHR-P-2CPiping2-1518GYD 201Replaced suction strainers LPCS-ST-2 and 3 for pump LPCS-P-1Piping2-1519GYD 301Replaced suction strainers HPCS-ST-2 and 3 for pump HPCS-P-1Piping2-1520KKB 901Replaced rupture disc for RCIC-RD-1 and RCIC-RD-2Piping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced rupture Gisc for valve Serial No N60597-00-0003Relief Valve2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1529C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve			•		RF98 Summary Report
2-1517GYD 001Replaced suction strainers RHR-ST-4A and 4B for pump RHR-P-2CPiping2-1518GYD 201Replaced suction strainers LPCS-ST-2 and 3 for pump LPCS-P-1Piping2-1519GYD 301Replaced suction strainers HPCS-ST-2 and 3 for pump HPCS-P-1Piping2-1520KKB 901Replaced rupture disc for RCIC-RD-1 and RCIC-RD-2Piping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced parts for valve SLC-V-4BValve2-1526JWZ 801Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1522C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve				<i>,</i> -	RF98 Summary Report
2-1518GYD 201Replaced suction strainers LPCS-ST-2 and 3 for pump LPCS-P-1Piping2-1519GYD 301Replaced suction strainers HPCS-ST-2 and 3 for pump HPCS-P-1Piping2-1520KKB 901Replaced rupture disc for RCIC-RD-1 and RCIC-RD-2Piping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced relief valve RHR-RV-1APiping2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1523C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve					
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2-1520KKB 901Replaced rupture disc for RCIC-RD-1 and RCIC-RD-2Piping2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced relief valve RHR-RV-1APiping2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1533C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve			• • •		RF98 Summary Report
2-1521JKT 801Replaced rupture disc for CAC-RD-1APiping2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced relief valve RHR-RV-1APiping2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve			•		RF98 Summary Report
2-1522JKT 901Replaced rupture disc for CAC-RD-1BPiping2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced relief valve RHR-RV-1APiping2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve			· ·		RF98 Summary Report
2-1523JWF 501Replaced rupture disc for CCH-RD-1BPiping2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced relief valve RHR-RV-1APiping2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1533C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve					RF98 Summary Report
2-1524GTM 702Refurbished spare relief valve Serial No N60597-00-0003Relief Valve2-1525HNL 301Replaced relief valve RHR-RV-1APiping2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1533C 31331Refurbished relief valve S/N N63790-00-0054Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve					RF98 Summary Report
2-1525HNL 301Replaced relief valve RHR-RV-1APiping2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1533C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve	-	2-1523 JWF 50	• •		RF98 Summary Report
2-1526JWZ 801Replaced parts for valve SLC-V-4BValve2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1533C 31331Refurbished relief valve S/N N63790-00-0054Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve	2	2-1524 GTM 70	-		RF98 Summary Report
2-1527HHH 601Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3Valve2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1533C 31331Refurbished relief valve S/N N63790-00-0054Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve	- 2	2-1525 HNL 30	Replaced relief valve RHR-RV-1A	• •	RF98 Summary Report
2-1528KVT 901Replaced bonnet for valve MD-V-71Valve2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1533C 31331Refurbished relief valve S/N N63790-00-0054Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve	2	2-1526 JWZ 80	Replaced parts for valve SLC-V-4B	Valve	RF98 Summary Report
2-1532C 31331Refurbished relief valve S/N N63790-00-0050Relief Valve2-1533C 31331Refurbished relief valve S/N N63790-00-0054Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve	1	2-1527 HHH 60	Replaced studs and nuts for hinge pin cover plate for valve LPCS-V-3	Valve	RF98 Summary Report
2-1533C 31331Refurbished relief valve S/N N63790-00-0054Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve	1	2-1528 KVT 90°	Replaced bonnet for valve MD-V-71	Valve	RF98 Summary Report
2-1533C 31331Refurbished relief valve S/N N63790-00-0054Relief Valve2-1534C 31331Refurbished relief valve S/N N63790-00-0057Relief Valve	2	2-1532 C 31331	Refurbished relief valve S/N N63790-00-0050	Relief Valve	RF98 Summary Report
2-1534 C 31331 Refurbished relief valve S/N N63790-00-0057 Relief Valve				Relief Valve	RF98 Summary Report
				Relief Valve	RF98 Summary Report
Z-1535 U 31331 Keturdished reliet valve S/N N53790-0058 Kellet Valve		2-1535 C 31331	Refurbished relief valve S/N N63790-00-0058	Relief Valve	RF98 Summary Report
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APPENDIX B

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ASME SECTION XI REPAIR AND REPLACEMENT LISTING FOR WNP-2 REFUELING OUTAGE RF98

	PLAN NO	WOT NO	COMPONENT NUMBER AND WORK DESCRIPTION	CODE COMP	R&R REPORTED IN
	2-1537	C 31331	Refurbished relief valve S/N N63790-00-0134	Relief Valve	RF98 Summary Report
	2-1538	C 31331	Refurbished relief valve S/N N63790-00-0135	Relief Valve	RF98 Summary Report
	2-1539	C 31331	Refurbished relief valve S/N N63790-00-0138	Relief Valve	RF98 Summary Report
	2-1540	C 31331	Refurbished relief valve S/N N63790-01-0140	Relief Valve	RF98 Summary Report
	2-1540	LRF 801	Replaced valve PI-EFC-X41E	Piping	RF98 Summary Report
	2-1542*	KCM 801	Prefabricated support for valve RRC-V-20	Support	RF98 Summary Report
	2-1542 *	HTV 901	Installed support for valve RRC-V-20	Support	RF98 Summary Report
	2-1542	BGH 501	Refurbished spare relief valve Serial No N67441-00-0002	Relief Valve	RF98 Summary Report
	2-1545	FD 6601	Refurbished spare relief valve Serial No N67441-00-0001	Relief Valve	RF98 Summary Report
	2-1545 2-1546 *	KRW 002	Replaced fittings for tubing for CIA supply to valve MS-V-22D	Tubing	RF98 Summary Report
5			Replaced ball for valve TIP-V-3	Valve	RF98 Summary Report
	2-1547 *	KDG 302	•	Pump	RF98 Summary Report
	2-1549	KTL 706	Replaced mechanical seal (gland plate) for pump FPC-P-1A	Valve	RF98 Summary Report
	2-1550	JDG 009	Replaced front snubber for valve CVB-V-1ST	Piping	RF98 Summary Report
	2-1551	KWC 502	Replaced relief valve MS-RV-2C	Piping	RF98 Summary Report
	2-1552	KNT 901	Cut and rewelded welds associated with SW-FE-8B	Relief Valve	RF98 Summary Report
	2-1553	LBF 001	Modified outlet flange for spare relief valve RHR-RV-5		RF98 Summary Report
	2-1554	HNL 101	Replaced relief valve RHR-RV-5	Piping	
	2-1556 *	HLW 412	Prefabricated connection with valves RHR-V-606 and RHR-V-631	Piping	RF98 Summary Report
	2-1556 *	HLW 404	Installed connection with valves RHR-V-606 and RHR-V-631	Piping Delia(Maha	RF98 Summary Report
	2-1557	LDY 902	Replaced bolting material for relief valve MS-RV-2D	Relief Valve	RF98 Summary Report
	2-1558	LFD 701	Replaced bolting material for relief valve MS-RV-3A	Relief Valve	RF98 Summary Report
	2-1559	JGD 008	Replaced front snubber for valve CVB-V-1QR	Valve	RF98 Summary Report
	2-1560 *	LDM 801	Replaced tubing for CIA supply to valve MS-V-22A	Tubing	RF98 Summary Report
	2-1561 *	LDM 801	Replaced tubing for CIA supply to valve MS-V-22B	Tubing	RF98 Summary Report
	2-1562 *	LDM 801	Replaced tubing for CIA supply to valve MS-V-22C	Tubing	RF98 Summary Report
	2-1563 *	LDM 801	Replaced tubing for CIA supply to valve MS-V-22D	Tubing	RF98 Summary Report
	2-1564 *	LDB 901	Replaced tubing for CAS supply to valve MS-V-28A	Tubing	RF98 Summary Report
	2-1565 *	LDB 901	Replaced tubing for CAS supply to valve MS-V-28B	Tubing	RF98 Summary Report
	2-1566 *	LDB 901	Replaced tubing for CAS supply to valve MS-V-28C	Tubing	RF98 Summary Report
	2-1567 *	LDB 901	Replaced tubing for CAS supply to valve MS-V-28D	Tubing	RF98 Summary Report
	2-1569	LPW 301	Removed temporary attachment (nut) welded to penetration X-58	Containment	RF98 Summary Report
	N/A	HMH 101	Replaced snubber for support RHR-400	Support	RF98 Summary Report
	N/A	HMH 101	Replaced snubber for support RHR-442	Support	RF98 Summary Report
	N/A	HMH 101	Replaced snubbers for support MS-91 (East) and MS-91 (West)	Support	RF98 Summary Report
	N/A	HMH 101	Replaced snubber for support MS-114 (North)	Support	RF98 Summary Report
	N/A	HMH 101	Replaced pin for support MSRV-1A-3	Support	RF98 Summary Report
	N/A	HMH 101	Replaced snubber for support MSRV-4B-3	Support	RF98 Summary Report
	N/A	HMH 101	Replaced snubber for support RWCU-1C-3 (East)	Support	RF98 Summary Report
	N/A	HMH 101	Replaced snubber and forward bracket for support MS-4448-413	Support	RF98 Summary Report
2	N/A	HMH 101	Replaced snubber for support MS-999N	Support	RF98 Summary Report
	N/A	HMH 101	Replaced snubber and forward bracket for support MD-1285-14C	Support	RF98 Summary Report
	N/A	HMH 101	Replaced snubber for support MD-1290-11B	Support	RF98 Summary Report
	N/A	MCJ 601	Replaced snubber for support RHR-42	Support	RF98 Summary Report
	N/A	MCJ 601	Replaced snubbers for support RHR-39 (North) and RHR-39 (South)	Support	RF98 Summary Report

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 Authorized Nuclear Inservice Inspector's (ANII's) involvement was not required for these ASME Section XI replacement work plans for one (1) inch nominal pipe size (NPS) and smaller.

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				NGTON PUBLIC PLY. SYS			• •	PLAN No 2-1301 :
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2. 3. 4. 5.	Address: WN Plant: Washing Address: WN (a) Work Peri (b) Repair Org (c) Type Code (d) Certificate (e) Expiration Identification (a) Applicable (b) Applicable Code Case: N	P-2 Plant Site, North ton Public Power Su P-2 Plant Site, North formed By: Washi ganization P.O. M Symbol Stamps Of Authorization Date: Not Applicab Of System: Cont construction O Edition Of ASM None	n No.: Not Applicable	and, Washingto Juclear Power F and, Washingto bly System (WF shington Public htrol (CAC) Sys Code Class 2, ad For Repa	Plant (WNF n, 99352 PPSS) Power Su tem 1971 Editi Irs Or Ro	pply Syst ion with S e placen	Shee Unit: em (WPPSS) ummer 1973 Addene nents: 1989 Edition	
	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
	CAC-HR-1A CAC-V-58A CAC-V-58A	Air Products ITT Grinnell ITT Engineered	76-129-3 75-5716-1-1 562877-3-1	5209 N/A N/A	N/A N/A N/A	1977 1976 1996	Replacement Replaced Replacement	Yes, Code Class 2 Yes, Code Class 2 Yes, Code Class 2

7. Description Of Work Performed: Replaced existing valve CAC-V-58A. The replacement work was performed as follows: 1) Removed existing valve CAC-V-58A, Serial No 75-5716-1-1.

2) Installed new replacement valve CAC-V-58A, Serial No 75-57 16-1-1.

3) Made required socket weld.

4) Performed visual examination on the final socket weld. Visual examination results acceptable.

5) Performed liquid penetrant (PT) examination on the final socket weld, Liquid penetrant (PT) examination results acceptable.

NOTES.

1) ASME Section III, Code Class 2, 1971 Edition with Summer 1973 Addenda for the Containment Atmosphere Control (CA) System. 2) ASME Section III, Code Class 2, 1974 Edition with Summer 1974 Addenda for the new replacement valve CAC-V-58A, Serial No 562877-3-1.

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Test Pressure: Paig Test Temperature: ° F Remarks: See attached NPV-1 Code Data Report for the new replacement valve CACV-58A, Serial No 562877-31. Remarks: See attached NPV-1 Code Data Report for the new replacement valve CACV-58A, Serial No 562877-31. 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 Kudaip Singh - Program Lead Engineer (PLE) Date 3[3] [98: 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 and employed by Vessel Inspectors and the State of and employed by Asset of my knowledge and bellet, 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 NI. 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 in accordance with this inspection. Not Beaudic - Replacement 1*NPS And Smaller		ININGTON FUBLIC POREL		v R	' PLAN	N No 2-13
Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F Remarks: See attached NPV-1 Code Data Report for the new replacement valve CACV-S8A, Serial No 562877-3-1. 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 Certificate Of Authorization No: Not Applicable Signed By Luttop Sign. Program Lead Engineer (PLE) Date 2) 3 [18 Date 3 3 [98 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 and employed by Cescribed in this Owner's Report during the period and employed by have Inspected the components of the ASME Code, Section XI. State to the best of my knowledge and beller, 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 in accordance with this inspection. Not Resourds Signatu	FORM NIS-2 OWNER'S REPORT	FOR REPAIRS O	R REPLACE	EMENTS (Back)	
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 Not: Not Applicable Expiration Date: Not Applicable Prepared By	Test Pressure: Psig	Te:	st Temperatu	Ire:°F] Other	X Nor
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	Remarks: See attached NPV-1 Code Data Report for the	new replacement valve	, CAC-V-58A, Se	rial No 56287	7-3-1.	
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				-	ji Na	ų
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				•		•
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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 Ov	wner's Report are (correct and i	his replacer	nent <i>conf</i>	orms
Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable Prepared By Julian Kuldip Singh - Program Lead Engineer (PLE) Date 3 3 18 Date 3 3 98 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	to the rules of the ASME Code, Section XI.					
Expiration Date: Not Applicable Prepared By Julian Surged Signed By Julian Surged Signed By Julian Surged Signed By Julian Surged Signed By Julian Surged		, N ^a		`		
Prepared By Juich Signed By Juich Signed By Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE) Date 33 93 98 Date 33 98 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				•		
Kuldip Singh - Profram Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE) Date 33399 Date 33399 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	Expiration Date: Not Applicable		2 -			
Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE) Date 3)3 18 Date 3)3 98 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 and employed by have Inspected the components described in this Owner's Report during the period to 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. Not Required - Replacement 1* NPS And Smaller Commissions	Prepared By Juland Sweb	Signed By	Kular	A K	mpb	
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel inspectors and the State of and employed by	Kuldip Singh - Program Lead Engineer (I	0.g00_0.y PLE)		Program Lea	d Engineer	(PLE)
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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. Not Required - Replacement 1* NPS And Smaller Commissions National Board, State, and Endorsements	state to the best of my knowledge and belief, t	the Owner has per	formed exan	ination s a	nd taken	n
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. Not Required - Replacement 1* NPS And Smaller Commissions Inspector's Signature National Board, State, and Endorsements	corrective measures described in this Owner's	s Report in accord	lance with th	e requiren	nents of t	the
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Date			National Boar	d, State, and	Endorseme	ents
	Date	_				(

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FORM NPV-1 MANUFACTURERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES PLAN NO. 2-1301 As Required by the Provisions of the ASME Code Rules - Quearp Surps 2/28/98 . . Manufactured by ITT Engineered Valves, 33 Centerville Road, Lancaster, PA 17603 Order No. 562877 (Name and Address of Nanufacturer) - 1 Manufactured for Maghington Public Power Supply System, Richland, WA Order No. 238568-01 2. Owner Manhington Public Power Supply System 3. Location of Plant MNP-2 OPS Marshouse Complex, MHS #1, North Power Plant Loop, Richland, MA 4. 5. Pump or Valve Identification _____1/2" Handwheel Operated Disphragm Valve w/Travel Stop - Nuclear Power Plant -(Brief description of service for which equipment was designed). . ۰. (a) Drawing No. <u>SD-C-116477 Rev 0</u> _ Prepared by _ITT_Engineered Valves____ (b) Mational Board No. _____NA CAC-V-58A,S/N 562877-3-1 ___psi __________ (Temperature) Design Conditions ____ 6. •7 (Pressure) The material, design, construction, and workmanship complies with ASNE Code Section III. Class_2. 7. • • • . 1974 ____,Addenda Date___Summer 1974.....,Case No.___1540-1 Edition___ Bolting: 1986 No Addenda Mark No. Material Spec. No. Manufacturer Remarks (a) Castings • ٠. 562877-3-1 Bodies ASME SA-216 Grade WCB Post Precision Castings Inc. 562877-3-1 Bonnets ASME SA351 Grade CF8 Stainless Foundry & Engineering, Inc. (b) Forgings . WASHINGTON PUBLIC POWER SUPPLY SYSTEM P.O. 238568-01 . ITT ENGINEERED VALVES SERIAL NO. 562877-3-1 PAGE 2 of 80

MAR 25 '96 07:48AM ITTENGINEEREDVAVLES LANC. PA FORM NPV-1 (back)

' Mart Ho.	Material Spec. So.	Hazulecturer	Resarks
(c) Bolting			
562877-3-1			
Studø	ASME SA193 Grade B7	Allied Nut & Bolt	1986 Code
÷			No Addenda
		• • •	
562877-3-1		•	1986 Code
Nuts	ASHE SA194 Grade 28	Nova Machine Products	No Addenda
		,	
	· · · · ·		-
(d) Other Farts			
Vent Plug	36+9 -	40	• •
562877-3-1	ASME SA479 Type 410	Nova Machine Products	

8. Bydrostatic test ____ 500 ___ pai

CERTIFICATION OF DESIGN	
sign information on file at REGINGOROG Valves. Lancastor. Ph. 17603 ress Analysis Report on file at NA	-
carrify that the statements nade in this report are correct.	e i
ERE 14 1596 Signed ITT Engineernd Valves By AMUL	
rtificate of Authorization Ro. <u>N 2649</u> expires <u>07/05/96</u>	

CERTIFICATE OF SHOP INSPECTION

I. the undersigned, holding a valid commission issued by the National Board of Boiler and Fressure Vessel Inspectors and the State or Province of <u>Romanylvania</u> and employed by <u>H.S.B.I. E.T.</u> <u>Commany of Hartford. Commenticut</u> have inspected the equipment described in this Data Report co <u>A.M.C. 19 J.</u> and state that to the best of my knowledge and belief, the Manufacturer bas constructed this equipment in accordance with the applicable Subsections of ASNZ Code, Section III.

By eliming this contridicate, meither the Inspector nor his amployer makes any verranty, expressed or implied, concerning the equipment described in this Data Report. Furthernore, meither the Inspector nor his employer shall be liable in any menner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date	2-15-96		29
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	M. h Andle	Consissions	NB4829A PA 1860
	(Inspector)	4	(Marional Board, State WASHINGTON P
	and the second se		SUPPLY SYSTEM

SUPPLY SYSTEM P.O. 234364-01 ITT ENGINEERED VALVES SERIAL NO. 362277-3-1

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PLAN No 2-1381

Date: 10/28/97

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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
 - (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 Seriai No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Target Rock	14	N/A	N/A	1980	Repaired	Yes, Code Class 2
Spare Disc	Target Rock	762	N/A	N/A	1989	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Spare Target Rock valve Serial No 14 (PI-V-X269), Model No 79TT-001 was removed from the plant in accordance with ASME Section XI Plan No 2-1398. This spare valve was refurbished for future use in the plant. The refurbishment (repair and replacement) work was performed as follows:

- 1) Cut valve body to bonnet seal weld.
- 2) Removed existing disc from the valve.
- 3) Installed new replacement disc Serial No 762 in the valve.
- 4) Made valve body to bonnet seal weld.

· · · · · · · · · · · ·

- 5) Performed visual examination on the final seal weld. Visual examination results acceptable.
- 6) Performed liquid penetrant (PT) examination on the final seal weld. Liquid penetrant (PT) examination results acceptable.

مرجوع فالمتحد مستنعت ومعدمين سنيد معلامة م

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	WASHINGTON PUBLIC PC		PLAN No 2-1381
	SUPPLY SYST.	EM	•
FORM NIS-2 OWNER'S	REPORT FOR REPAIRS	S OR REPLACEME	NTS (Back)
Tests Conducted: Hydrostatic P Test Pressure: Psig Component Design I		Operating Pressur Test Temperature: Temperature: ° F	
Remarks: See attached N-2 Code Data Repo	rt for the new replacement disc,	Serial No 762.	
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<u></u>			
C	ERTIFICATE OF COMP	LIANCE	
Conforms to the rules of the ASME C Type Code Symbol Stamp: Not Applicat Certificate Of Authorization No.: Not A Expiration Date: Not Applicable Prepared By Kuldip Singh - Program Leac Date 10 28 97	ble Applicable Signed E		Euces ram Load Engineer (PLE) 97
	Date	(0/20)	
CERTIF	FICATE OF INSERVICE	NSPECTION	
I, the undersigned, holding a valid co Vessel Inspectors and the State of W of Waltham, Massachusetts have Inspe- period 9/29/96 to 9/1/1/20	Ashington and employed a cted the components de 27 and state to the state to	by Arkwright Mutual I scribed in this Own he best of my know	nsurance Company er's Report during the ledge and belief, the
Owner has performed examinations in accordance with the requirements By signing this certificate neither the	s of the ASME Cod <mark>e</mark> , Sect e Inspector nor hi <mark>s</mark> emplo	llon XI.	
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Part of Appurtenance NA 1989 Serial Number NA 1989 100000 1989 111 75 KST N/A 1989 10000 ASME Code, Section III: 1974 W 75 2 N/A Febricated in secondance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A Remarks: Spare Parts for a completed valve, Models 79TT-001, 83TT-001 STT-001 STT-001 STT-001 SPARE Date VA (o) (o) (o) Nom. thickness (in.) N/A Dis. (D (tri & in.) N/A (o) Nom. thickness (in.) N/A Dis. (D (tri & in.) N/A (o) Nom. thickness (in.) N/A Dis. (D (tri & in.) N/A (o) 120 N/A Dis. (D (tri & in.) N/A (o) 131 Tres of Appurtenance National Serial Number Board No. 160 T60 N/A (20) (d) (d) 132 N/A <td></td> <td></td> <td></td> <td></td> <td>and an exception of the</td> <td></td>					and an exception of the	
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ASME Code, Section III: 1974 W 75 2 NA Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision NA Date NA Remarks: Spare Parts for a completed valve, Models 79TF-001, 83TT-001 STF-001 STF-001 STF-001 SPARE D1SC S) N 7 62 Fork SULCEPT (o) Nom. thickness (in.) N/A Min. design thickness (in.) N/A (o) Nom. thickness (in.) N/A Min. design thickness (in.) N/A (o) Nom. thickness (in.) N/A Min. design thickness (in.) N/A (o) Nom. thickness (in.) N/A Min. design thickness (in.) N/A (o) Nom. thickness (in.) N/A Min. design thickness (in.) N/A (o) 10 779 N/A (o) Setal Number Board Number Board Number 11 779 N/A (20) (20) (20) (20) (20) 120 131 (30) (31) (32) (32) (33) (33) 131 (32) N/A	Type Rev. E	SA-479 316	. 75 K	SI.		
Interest				•	2	N/A
Remarks:Spare Parts for a completed valve, Models 79TT-001, 83TT-001 SPARE DISC, SIN 762 For Undarfy (SPARE DISC, SIN 762 For Undarfy (SPARE VALVE SIN 14 (0) SPARE VALVE SIN 14 (0) SPARE VALVE SIN 14 (0) N/A Min. design thickness (in.) M/A Dis. 10 ft & in.) M/A Length overall (ft & in.) N/A Part or Appurtenance National Board No. in Numerical Order Part or Appurtenance National Board No. in Numerical Order (11) 779 N/A (26) [26] [27] [28] [29] [29] [29] [29] [29] [29] [31] [31] [31] [32] [31] [31] [32] [33] [34] [39] [39] [31] [31] [32] [33] [39] [39] [39] [40] [40] [40] [41] [42] [42] [42] [42] [42] [43] [44] [44] [45] [44] [44] [45] [45] [44] [45] [46] [46] [46] [46] [46] [ASME COUR, Section III	(edition)			N N. 2	(Code Case n
Premarks: Spare Parts for a completed valve, Models 79TT-001, 83TT-001 Spare Spare Disc. Spare For Spare	Fabricated in accordance with C	Const. Spec. (Div. 2 only)		Re	vision <u>N/A</u>	DateN/A
SPARE Disc. SIN 762 For. Usc. Sin 14 10 Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dis. 10 It & in.) N/A (i) Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dis. 10 It & in.) N/A (i) When applicable, Certificate Holders' Data Reports are attached for each item of this report: Part or Appurtenance National Board No. In Numerical Order National Board No. In Numerical Order In Order In Order In Order In Order In Order In Order </td <td>- Spare Parte</td> <td>for a completed</td> <td></td> <td>Models 7</td> <td>79TT-001, 83T</td> <td>T-001</td>	- Spare Parte	for a completed		Models 7	79TT-001, 83T	T-001
SPBRE VALVE SIM14 (o) Nom. thickness (in.) N/A Min, design thickness (in.) N/A Dis. ID (It & in.) N/A Length oversil (It & in.) N When applicable, Certificata Holders' Data Reports are attached for each item of this report: Part or Appurtenance National Board No. In Numerical Order National (11) 779 N/A Icities International Board No. Icities International Board No. (21) 816 N/A Icities International Board No. Icities International Board Number Board Number International Icities Internatinget International Icities Internate <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td>		· · · · · · · · · · · · · · · · · · ·				
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mental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% × 11, (2) information in items 2 and 3 on this Da	(20)			(50)		165

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HURA ... CERTIFICATEUSCUST ADIATA ... REPUHI NUCLEAR PARTS: AND APPURTENANCESS ea Front Llf. San e riversions of the ASME Code, Section III' of. ...p9 · / **,**••• Not-To Exceed One Day's Production 👓 SERTIFICATI 0.5.6 11735 YH. 1966E: Broadhollow Rd, E: Farmingdale; Target Rock Lorps; ve builines bra be Lineturela. Reg. no. Kel Cartica Design specifications certified by P.E. State Ageuracou . Laoro TONON Â'n Richland, icable citic. . md Maulactured for 2.5 1 Design report* certified by P.E. State Reg. no. PLANE 76912UN NOJDNI(266 AK . Living applicable) . S ε Location of installation 202337-1 Rev. 1127 <u>989 :</u> 22 CERTIFICATE OF SHOP COMPLIANCE J. TYDE SY Part ASME Code, Section III-- 2 We cartify that the statements made in this report are correct and that this (these) conforms to the rules of construction of the ASME Code, Section III. ~ 00060.000 ひ.:: 5 12-9-89 1948 NPT Certificate of Authorization No. Expires ٠. ۰. . ***. ** Duidda 89 Target Rock Corporation Date Signed Name Q.A. (NPT Certificate Holder) Manager Ε. BajadaZ ----7 . . . ·: CERTIFICATE OF SHOP INSPECTION 2.00 . 🤈 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors New York and employed by Commercial Union Insurance Company and the State or Province of and employed by Boston, Mass. of. have inspected these items described in this Data Report on and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenance's in accordance with the ASME Code, Section 101.00 III. Each part listed has been authorized for stamping on the date shown above. 7 **'**.7 By signing this cartificate, 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 1 ected with this inspect loss of any kind acising from or conr New York State Commun VJ. 228 2 CONSILIED MARSE ONED IN COME ONE I COM Date 50 302 M. Sugar the state of the second

			NGTON FOULD	PORER	í	I	PLAN No 2-14
	FORM NIS-2	OWNER'S REPOR			י אר REP	LACEMENTS	
	As Requi	ired By The Provis	ions Of The	e ASME	Code S	Section XI	
Address: WN	IP-2 Plant Site, North	Supply System (WPPSS) Power Plant Loop, Richla	and, Washingto			Shee	: 05/19/98
Address: WN	P-2 Plant Site, North	pply System (WPPSS) N Power Plant Loop, Richla ngton Public Power Supp	and, Washingto	n, 99352)	Unit:	WNP-2 .
(b) Repair Or (c) Type Cod	ganization P.O. I e Symbol Stamp:	Vo, Job No, etc.: Was			pply Syst	em (WPPSS)	
	Date: Not Applicab				•		t
4. Identification	n Of System: Cool	ng Coils					A 14
(b) Applicable Code Case:	e Edition Of ASM None	Code: ASME Section III, IE Section XI Utilize Repaired Or Repla	ed For Repa	irs Or Re	eplacen	nents: 1989 Edition	
Name Of Component	Name Of Manufacturer	Manufacturer' s Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Cod Stamped (Yes Or No Code Clas
WMA-CC-53A/1	CVI Corporation	See Note 1	See Note 1	N/A	1975	Replacement * *	Yes, Code Clas
<u> </u>	I		<u> </u>			د 	I
7. Description (Of Work Perform	ed: Replaced threaded h	hex head pipe p	biugs for th	e cooling	coils. The replaceme	ent work was
performed as follow	5:						
	Outlet Nozzle For WM		I			•	
 Modified three 	eaded hex head pipe dified threaded hex he					"	
 Modified throits Installed modified 3 Performed \ 	dified threaded hex h /T-2 visual examination		confirm pressu	ır o bounda	ry integrit	y of the threaded join	nt. No evidence of
1) Modified thro 2) Installed mo 3) Performed \ leakage during Lower Cooling Coil	dified threaded hex he /T-2 visual examination the pressure test. Inlet Nozzle For WMA	ead pipe plug. on during pressure test to N-CC-53A/1	confirm pressu	ir o bounda	ry integrit	y of the threaded join	nt. No evidence of
 Modified throad t	dified threaded hex he /T-2 visual examination the pressure test. Inlet Nozzle For WMA eaded hex head pipe	ead pipe plug. on during pressure test to N-CC-53A/1 plug.	confirm pressu	ir o bounda	ry integrit	y of the threaded join	nt. No evidence of
 Modified throad t	dified threaded hex he /T-2 visual examination the pressure test. Inlet Nozzle For WMA eaded hex head pipe dified threaded hex he /T-2 visual examination	ead pipe plug. on during pressure test to N-CC-53A/1 plug.	· ·			•••	Х ⁷ .
 Modified throad t	dified threaded hex he /T-2 visual examination the pressure test. Inlet Nozzle For WMA eaded hex head pipe dified threaded hex he /T-2 visual examination the pressure test. Outlet Nozzle For WM	ead pipe plug. on during pressure test to N-CC-53A/1 plug. ead pipe plug. on during pressure test to IA-CC-53A/1	· ·			•••	Х ⁷ .
 Modified through the second sec	dified threaded hex he /T-2 visual examination the pressure test. Inlet Nozzle For WMA eaded hex head pipe dified threaded hex he /T-2 visual examination the pressure test. Outlet Nozzle For WM eaded hex head pipe	ead pipe plug. on during pressure test to N-CC-53A/1 plug. ead pipe plug. on during pressure test to IA-CC-53A/1 plug.	· ·			•••	Х ⁷ .
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2) The N-1 Code Data Reports for the units are coded as WMA-AH-53A/1, 53A/2.,53A/3 and 53A/4. The Code Data Reports are for cooling coils WMA-CC-53A/1, 53A/2.,53A/3 and 53A/4.

Test Pressure 230 Psig Test Temperature: 53° F Component Design Pressure: 300 Psig Temperature: 200° F 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 Signed By Lucch Prepared By Luch Signed By Kuldip Singh - Program Lead Engineer (PLE) Nuldip Singh - Program Lead Engineer (PLE) Signed By Luch Engineer (PLE) Date \$\frac{120}{38} Date \$\frac{120}{18} Signed of Date: report for the second of Boller and Pressure to the State of Washington and employed by Akwright Mutual Insurance Company of Waltham, Massachusetts have jingscrifted the components described in this Owner's Report turing the period Versei Inspectors and the State of Washington and employed by Akwright Mutual Insurance Company of Waltham, Massachusetts have jingscrifted the corrective measures described in this Owner's Report thing the period Waltham, Massachusetts have jingscrifted file corrective measures described in this Owner's Report ting the period Mutual State to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report tings	
Test Conducted: Hydrostalic Pneumatic Nominal Operating Pressure Other None Test Pressure: 230 Psig Test Temperature: 55° F Temperature: 55° F Component Design Pressure: 300 Psig Test Temperature: 200° F Remarks: Noro 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 Signed By Lutath Prepared By Log Sumpton Stamp: Not Applicable Signed By Lutath Prepared By Log Sumpton Not: Not Applicable Signed By Lutath Sumpton Prepared By Log Sumpton Not Not Applicable Signed By Lutath Sumpton Prepared By Log Sumpton Not Not Not Applicable Signed By Lutath Sumpton Prepared By Log Sumpton Not	KASIUNGTON PUULIC POWER
Test Pressure: 230 Pag Test Temperature: 55° F Component Design Pressure: 300 Pag Temperature: 200° F Remarks: None CERTIFICATE OF COMPLIANCE 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 Expiration Date: Not Applicable Certificate Of Authorization No: Not Applicable Signed By Kuddip Singh *Program Lead Engineer (PLE) Signed By Nuddip Singh *Program Lead Engineer (PLE) Signed By Date \$120,98 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 Ankwright Mutual Insurance Company of Waltham, Massachusetts have Inggerged the components described in this Owner's Report during the period IMATC to 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 or his employer makes any warranty, expressed or inpilled, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector or his employer shal	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
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 Suged By Suged By Multip Singh - Program Lead Engineer (PLE) Nultip Singh - Program Lead Engineer (PLE) Date \$20198 Date \$20198 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 Arkwight Mutual Insurance Company of Watham, Massachusetts have Inspected the components described in this Owner's Report during the period IIII 1927	Test Pressure: 230 Psig Test Temperature: 55° F
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 Explration Date: Not Applicable Prepared By Gaugh Kuldip Singh - Program Lead Engineer (PLE) Date \$20198 Date \$20198 Date \$20198 Date \$20198 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 Ankwright Mutual Insurance Company of Waitham, Massachusetts have inspected the components described in this Owner's Report during the period <u>IIIIIIII</u> to <u>Sourcements of the ASME Code</u> , 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. Mutual Discurption and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the exam	Remarks: None
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 Explration Date: Not Applicable Prepared By Gaugh Kuldip Singh - Program Lead Engineer (PLE) Date \$20198 Date \$20198 Date \$20198 Date \$20198 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 Ankwright Mutual Insurance Company of Waitham, Massachusetts have inspected the components described in this Owner's Report during the period <u>IIIIIIII</u> to <u>Sourcements of the ASME Code</u> , 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. Mutual Discurption and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the exam	
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 Explration Date: Not Applicable Prepared By Gaugh Kuldip Singh - Program Lead Engineer (PLE) Date \$20198 Date \$20198 Date \$20198 Date \$20198 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 Ankwright Mutual Insurance Company of Waitham, Massachusetts have inspected the components described in this Owner's Report during the period <u>IIIIIIII</u> to <u>Sourcements of the ASME Code</u> , 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. Mutual Discurption and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the exam	
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 Explration Date: Not Applicable Prepared By Gaugh Kuldip Singh - Program Lead Engineer (PLE) Date \$20198 Date \$20198 Date \$20198 Date \$20198 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 Ankwright Mutual Insurance Company of Waitham, Massachusetts have inspected the components described in this Owner's Report during the period <u>IIIIIIII</u> to <u>Sourcements of the ASME Code</u> , 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. Mutual Discurption and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the exam	·
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 Explration Date: Not Applicable Prepared By Gaugh Kuldip Singh - Program Lead Engineer (PLE) Date \$20198 Date \$20198 Date \$20198 Date \$20198 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 Ankwright Mutual Insurance Company of Waitham, Massachusetts have inspected the components described in this Owner's Report during the period <u>IIIIIIII</u> to <u>Sourcements of the ASME Code</u> , 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. Mutual Discurption and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the exam	· · · · · · · · · · · · · · · · · · ·
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	CERTIFICATE OF COMPLIANCE
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 of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period <u>11/19/17</u> to <u>5</u> <u>10</u> 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. <u>Mutual Mathematica</u> <u>Commissions</u> <u>1400/17466 HUSB IS</u>	Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable Prepared By Quay Kuldip Singh - Program Lead Engineer (PLE) Signed By Kuldip Singh - Program Lead Engineer (PLE)
Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period <u>11/19/17</u> to <u>5</u> /16 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.	CERTIFICATE OF INSERVICE INSPECTION
Date 5/13/98 Commissions 74/64/7486 WISBES	of Waltham, Massachusetts have inspected the components described in this Owner's Report during the
	Image: Commissions The Commissions Inspector's Signature Commissions Date 1131.98
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			ü				P	LAN NO 2-1445
0				PLY SYS			•	•
			OWNER'S REPOR red By The Provisi					د ۲
	Address: WN	P-2 Plant Site, North I	upply System (WPPSS) Power Plant Loop, Richla ply System (WPPSS) Ni			ŀ	Date: Sheet Unit:\	
3.	(a) Work Perf (b) Repair Org	ormed By: Washin	Power Plant Loop, Richla Igton Public Power Supp Io, Job No, etc.: Was	ly System (WP	PSS)	oply Syste	om (WPPSS)	, , · · ^
4.	(d) Certificate (e) Expiration Identification	Of Authorization Date: Not Applicable Of System: Coolin	<i>1 No.:</i> Not Applicable e ng Coil			,		
	(b) Applicable Code Case: 1	Edition Of ASM	ode: ASME Section III, E Section XI Utilize	d For Repa	irs Or Re	eplacen	<i>ents:</i> 1989 Edition	la, Code Case: Non with no Addenda, ,
6.	Identification	Of Components	Repaired Or Repla					
	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
	PRA-CC-1A*	CVI Corporation	03-A098	219	N/A	1975	Replacement	Yes, Code Class

7. Description Of Work Performed: Replaced threaded hex head pipe plug for cooling coil PRA-CC-1A*. The replacement work was performed as follows: . ۰.

1) Modified threaded hex head pipe plug.

2) Installed modified threaded hex head pipe plug.

3) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the threaded joint. No evidence of leakage during the pressure test.

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1) * The N-1 Code Data Report for this unit is coded as PRA-FC-1A. The Code Data Report is for cooling coil PRA-CC-1A.

MASHINGTON FUELIC FOWER SUPPLY SYSTEM	2-1445
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
Fests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 230 Psig Test Temperature: 55° F Component Design Pressure: 300 Psig Temperature: 200° F] None
Remarks: None	
•	
•	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this Owner's Report are correct and this replacement conform to the rules of the ASME Code, Section XI.	5
Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	
Expiration Date: Not Applicable	Î
Prepared By Julan Queb Signed By Julan Suit	
Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE)	a
Date 5/20/98 Date 5/20/98	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressur Vessel inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company	e
of Waltham, Massachusetts have inspected the components described in this Owner's Report during	
period <u>////////////////////////////////////</u>	
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 o 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.	
of Mr. Inthe The The State of the	
Inspector's Signature Commissions <u>74864/7486 NISP ZS</u> National Board, State, and Endorsements	-
17/12/00/	
Date 0/17/78	

SUPPLY SYSTEM

. 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
 Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)

Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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: Cooling Coil

5. (a) Applicable Construction Code: ASME Section III, Code Class 3, 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
RRA-CC-2*	CVI Corporation	03-A075	222	N/A	1975	Replacement	Yes, Code Class 3

7. Description Of Work Performed: Replaced threaded hex head pipe plug for cooling coil RRA-CC-2*. The replacement work was performed as follows:

1) Modified threaded hex head pipe plug.

2) Installed modified threaded hex head pipe plug.

3) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the threaded joint. No evidence of leakage during the pressure test.

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1) * The N-1 Code Data Report for this unit is coded as RRA-FC-2. The Code Data Report is for cooling coil RRA-CC-2.

Date: 05/19/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1450

	5	SUPPLY SYS	TEM	•	
FORM	NIS-2 OWNER'S REP	ORT FOR REPAIR	S OR REPLACEM	ENTS (Back)	
Tes	lydrostatic Pneur st Pressure: 230 Psig omponent Design Press		al Operating Pressu Test Temperature Temperature: 200º	: 55 ⁰ F	one
lemarks: Nono					
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				r • •	
	•			*	
-		· · · · · · · · · · · · · · · · · · ·			٦
	CERT	IFICATE OF COM	PLIANCE		
	statements made in th		are correct and thi	s replacement conforms	•
	ASME Code, Section X of Stamp: Not Applicable	7.		* *	
	norization No.: Not Applica	able	7	به بر به ۲	ľ.
Expiration Date: No	ot Applicable			, , ,	•
Brangrad By N	uldip Surph) Signed	By Childing	s Surph	
Kuldi	lip Singh - Program Lead Eng	ineer (PLE)	Kuldip Singh - Pr	ogram Lead Engineer (PLE)	
DateS	5/20/98	Date	50	w/98	
			•		
			<u> </u>		,
	· · · · · · · · · · · · · · · · · · ·	·····		×	-
	CERTIFICA	TE OF INSERVIC	E INSPECTION		
			н. С		Í
I, the undersigned, Veget Increase	<i>I, holding a valid comm</i> and the State of Washi	ission issued by t	he National Board C od by Adwright Mutua	bi Boller and Pressure	
vessei inspeciois	chusetts have inspected	the components of	described in this Ov	vner's Report during the	
of Waltham, Massac	7 to 572198	and state to	o the best of my kno	owledge and belief, the	ļ
period 12/3/19	med examinations and			in this Owner's Report	
period <u>////////</u> Owner has perform		taken corrective n	neasures described	•	
period <u>///////</u> Owner has perform In accordance with	h the reaulrements of t	the ASME Code, So	ection XI.		
period <u>///////</u> Owner has perform In accordance with By signing this cel Implied, concernin	h the requirements of t ertificate neither the ins ng the examinations ar	the ASME Code, Se pector nor his emp nd corrective meas	ection XI. bloyer makes any w ures described in ti	varranty, expressed or his Owner's Report.	
period <u>///////</u> Owner has perform In accordance with By signing this cel Implied, concernin Furthermore. neith	h the requirements of t ertificate neither the ins ng the examinations an her the inspector nor h	the ASME Code, Se pector nor his emp nd corrective meas is employer shall l	ection XI. bloyer makes any w ures described in ti be liable in any man	varranty, expressed or his Owner's Report. nner for any personal	
period <u>///////</u> Owner has perform In accordance with By signing this cel Implied, concernin Furthermore. neith	h the requirements of t ertificate neither the ins ng the examinations ar	the ASME Code, Se pector nor his emp nd corrective meas is employer shall l	ection XI. bloyer makes any w ures described in ti be liable in any man	varranty, expressed or his Owner's Report. nner for any personal	
period <u>///////</u> Owner has perform In accordance with By signing this cel Implied, concernin Furthermore. neith	h the requirements of t ertificate neither the ins ng the examinations an her the inspector nor h	the ASME Code, So pector nor his emj nd corrective meas is employer shall h ny kind arising from	ection XI. bloyer makes any w ures described in ti be liable in any man n or connected with	varranty, expressed or his Owner's Report. oner for any personal on this inspection.	
period <u>///////</u> Owner has perform In accordance with By signing this cel Implied, concernin Furthermore. neith	h the requirements of t ertificate neither the ins ng the examinations an her the inspector nor h	the ASME Code, So pector nor his emj nd corrective meas is employer shall h ny kind arising from	ection XI. ployer makes any w ures described in the be liable in any man n or connected with ons <u>74864/744</u>	varranty, expressed or his Owner's Report. oner for any personal in this inspection.	
period <u>////////////////////////////////////</u>	h the requirements of t ertificate neither the ins ng the examinations an her the inspector nor h	the ASME Code, So pector nor his emj nd corrective meas is employer shall h ny kind arising from	ection XI. ployer makes any w ures described in the be liable in any man n or connected with ons <u>74864/744</u>	varranty, expressed or his Owner's Report. oner for any personal on this inspection.	
period <u>////////////////////////////////////</u>	h the requirements of the transfer the instant of the examinations and the examinations are the inspector nor here the inspector nor here a loss of an analyze or a loss of an analyze of a loss of an analyze of a loss of an analyze of the analyze	the ASME Code, So pector nor his emj nd corrective meas is employer shall h ny kind arising from	ection XI. ployer makes any w ures described in the be liable in any man n or connected with ons <u>74864/744</u>	varranty, expressed or his Owner's Report. oner for any personal in this inspection.	

	MASHINGTON	PUBLIC	PORE
5	SUPPLY	SYS	TEM

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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: Cooling Coll
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 3, 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
RRA-CC-5*	CVI Corporation	03-A079	226	N/A	1975	Replacement	Yes, Code Class 3

7. Description Of Work Performed: Replaced threaded hex head pipe plug for cooling coil RRA-CC-5*. The replacement work was performed as follows:

1) Modified threaded hex head pipe plug.

2) Installed modified threaded hex head pipe plug.

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3) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the threaded joint. No evidence of leakage during the pressure test.

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1) * The N-1 Code Data Report for this unit is coded as RRA-FC-5. The Code Data Report is for cooling coil RRA-CC-5.

Date: 05/19/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1451

SUPPLY SYSTEM	PLAN No 2-1451
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEME	NTS (Back)
Tests Conducted: HydrostaticPneumaticNominal Operating PressureTest Pressure: 230 PsigTest Temperature: 5Component Design Pressure: 300 PsigTemperature: 200° F	50° F .
Remarks: None	r
•	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this Owner's Report are correct and this is 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	C O J
Prepared ByKuldip Singh - Program Lead Engineer (PLE)Kuldip Singh - Si	ram Lead Engineer (PLE)
	·
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of I Vessel Inspectors and the State of Washington and employed by Arkwright Mutual II of Waitham, Massachusetts have inspected the components described in this Own period <u>14/16/27</u> to <u>5</u> Owner has performed examinations and taken corrective measures described in	nsurance Company <i>er's Report during the</i>

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`			PLY SYS			×	
		OWNER'S REPOR				A	•
	As Requi	ired By The Provis	ions Of The	e ASME	Codes	Section XI	*
1. Owner: Wash	ington Public Power S	Supply System (WPPSS)				Date:	05/19/98
		Power Plant Loop, Richle	und, Washingto	n, 99352		Shee	<i>t:</i> 1 of 1
2. Plant: Washing	gton Public Power Su	pply System (WPPSS) N	uclear Power P	lant (WNP)	Unit:	WNP-2
Address: WN	IP-2 Plant Site, North	Power Plant Loop, Richla	und, Washingto	n, 99352	*		
		ington Public Power Supp					8-
		Vo, Job No, etc.: Was	shington Public	Power Su	pply Syst	em (WPPSS)	
	e Symbol Stamp					• 、	·.
		n No.: Not Applicable					
.,,,,	Date: Not Applicab						
	n Of System: Cool	-		4074 5.44			da Cada Casa N
		Code: ASME Section III, IE Section XI Utilize					
Code Case:		ie Section XI Junize	u roi nepa		epiacen	1611(3. 1909 Eulioi	With the Addenda
		s Repaired Or Repla	ced And Re	nlacem	ent Con	nonents '	,
or ruerranouner	l el eempenena	mepaneu or mepia		.piaoeini	•	iponenia	
Name Of	Name Of	Manufacturer's	National	Other	Year	Repaired,	ASME Cod
Component	Manufacturer	Serial No	Board	I.D.	Built	Replaced Or	_ Stamped
			No		1	Replacement	. (Yes Or No
						· · · · · · · · · · · · · · · · · · ·	. Code Class
RRA-CC-11	CVI Corporation	03-A072	225	N/A	1975	Replacement	Yes, Code Clas
	1 1						
						-	

7. Description Of Work Performed: Replaced threaded hex head pipe plug for cooling coil RRA-CC-11. The replacement work was performed as follows:

 Modified threaded hex head pipe plug.
 Installed modified threaded hex head pipe plug.
 Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the threaded joint. No evidence of leakage during the pressure test.

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PLAN No 2-1452 SUPPLY SYSTEM	
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
8 Test's Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other None Test Pressure: 230 Psig Test Temperature: 55° F Component Design Pressure: 300 Psig Temperature: 200° F	
9. Remarks: None	
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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. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable Prepared By Yuddy Kuldip Singh - Program Lead Engineer (PLE) Date \$\sum_20198	
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 of Waltham, Massachusetts have Inspected the components described in this Owner's Report during the period <u>/2//6/77</u> to <u>5/77</u> 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.	۲۵ ندر
<u>M.M. Taylto</u> Inspector's Signature Date <u>5727798</u>	Ď

PLAN	l No	2-14	62
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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: Reactor Core Isolation Cooling (RCIC) 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: 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-RCIC- PCV-15	JCI	PI(1)-ST-RCIC-PCV- 15	N/A .	N/A	1982	Replacement	Yes, Code Class 3
		τ.		•			

7. Description Of Work Performed: Installed new tubing material associated with the second air regulator for the air operator for valve RCIC-PCV-15. The work was performed as follows:

1) Installed new tubing.

2) Installed new fittings associated with the tubing installation.

Date: 11/20/97 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-
SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
sts Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other I Test Pressure: Psig Component Design Pressure: Psig Temperature: ° F
emarks: None
. •
CERTIFICATE OF COMPLIANCE
Ve 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 ertificate Of Authorization No.: Not Applicable expiration Date: Not Applicable
repared By Luidy Such Kuldip Singh - Program Lead Engineer (PLE) Signed By Luidy Such Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE) ate 11/20/97
CERTIFICATE OF INSERVICE INSPECTION the undersigned, holding a valid commission issued by the National Board of Boller and Pressure
essel inspectors and the State of and employed by have inspected the components
escribed in this Owner's Report during the period to to and tate to the best of my knowledge and belief, the Owner has performed examinations and taken prective measures described in this Owner's Report in accordance with the requirements of the SME Code, Section XI.
y signing this certificate neither the inspector nor his employer makes any warranty, expressed or nplied, concerning the examinations and corrective measures described in this Owner's Report. urthermore, neither the inspector nor his employer shall be liable in any manner for any personal jury or property damage or a loss of any kind arising from or connected with this inspection.
Inspector's Signature Commissions National Board, State, and Endorsements

PLAN No 2-1475



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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
Spare Valve	Target Rock	13	N/A	N/A	1980	Repaired	Yes, Code Class 2
Spare Disc	Target Rock	762	N/A	N/A	1989	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Spare Target Rock valve Serial No 13 (PI-V-X268), Model No 79TT-001 was removed from the plant in accordance with ASME Section XI Plan No 2-1352. This spare valve was refurbished for future use in the plant. The refurbishment (repair and replacement) work was performed as follows:

- 1) Cut valve body to bonnet seal weld.
- 2) Removed existing disc from the valve.
- 3) Installed new replacement disc Serial No 782 in the valve.

4) Made valve body to bonnet seal weld.

5) Performed visual examination on the final seal weld. Visual examination results acceptable.

6) Performed liquid penetrant (PT) examination on the final seal weld. Liquid penetrant (PT) examination results acceptable.

Date: 01/28/98 Sheet: 1 of 1 Unit: WNP-2

					PLAN No 2	-147
		S B	UPPLY SYSTE	M.		-
FC	ORM NIS-2 OWI	NER'S REPORT	T FOR REPAIRS	OR REPLACEM	ENTS (Back)	
Tests Conducte	Test Pressure		7	Operating Pressµ Test Temperature Temperature: ° F		None
Remarks: See at	tached N-2 Code Da	ta Report for the ne	w replacement disc, Se	erial No 782.		
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<u></u>	·					<u> </u>
		CERTIFIC	ATE OF COMPL	IANCE		
conforms to th Type Code Syn Certificate Of J Expiration Dat	ne rules of the A mbol Stamp: Nor Authorization N e: Not Applicable	SME Code, Sea	ction XI.	Л. с.	repair and replacement	
Prepared By _	Kuldip Singh / Prog	ram Lead Engineer	· /	Kuldip Singh - Pro	gram Lead Engineer (PLE)	- (
Date	1 2.8	98	Date	<u>)281°</u>	18	-
			<u></u>			
					<u> </u>	
	C	ERTIFICATE (OF INSERVICE II	ISPECTION	•	
Vessel Inspect of Waltham, Ma period <u>///-/-</u> Owner has per in accordance By signing this implied, conce Furthermore, n	fors and the Sta ssachusetts have <u>97</u> to <u>17</u> formed examin with the require certificate neit rning the examination the the second	te of Washingtor inspected the <u>21-95</u> ations and take ments of the A her the Inspector nations and con- ector nor his en	and employed b components des and state to th n corrective mea SME Code, Section or nor his employ rrective measures apployer shall be li	y Arkwright Mutual cribed in this Own e best of my know sures described i on XI. er makes any wa s described in this able in any mann	Boiler and Pressure Insurance Company ner's Report during the wledge and belief, the n this Owner's Report rranty, expressed or s Owner's Report. er for any personal	•
injury or prope	erty damage or a	a loss of any kir	nd arising from oi Commissions		this inspection.	
Ins	spector's Signature			National Board, S	itate, and Endorsements	•
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	NUCLEAR PARIS A	BSI DATA REPORT FOR IDEN ND APPURTENANCES*	• • •
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T	arget Rock Corp., 19	65E Broadhollow Rd, E., Fa	armingdale, NY 11
1. Manufactured and certified by	.2 2 0	(name and address of NFT Ceruficase Holder)	specifications certified by
2. Manufactured forWashing	ton Public Power Supp	(name and address of NFT Cordicate Holder) ply-System, Richland, WA (name and address of purchaser)	
3. Location of installation Washi			Au paspito 2 , 1900ar
3. Location of installation			
4. Type 202337-1 Rev. E	SA-479 3167	5 KSIN/A	1989 '
(drawing no.)	(maril, sore, no.) 1974 W		N/A
5. ASME Code, Section III:		ende date) (class)	ICode Case no.
6. Fabricated in accordance with Co	nst. Spec. (Div. 2 only)	A Revision N/A	DateN/A
		(no.)	
7. Remarks: Spare Parts	for a completed valve	e, Models 79TT-001, 83TT-	.001
DISC SIN	1787 Kul	h Zich	· · · ·
<u>Disc</u>	1782 Audi	12819 8	
8. Nom. thickness (in.) <u>N/A</u>	Min. design thickness (in.) <u>N/I</u>	A Dia. ID (ft & in.) <u>N/A</u> Len	igth overall (ft & in.) <u>N/</u>
9. When applicable, Certificate Holds	ars' Data Reports are attached fo	or each item of this report:	
<u> </u>	T		
	National	Part or Appurtenance	National
Part or Appurtanance	Board No.	Serial Number	Board Number
Serial Number	in Numerical Order		in Numerical Orde
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(1)779	N/A	(26)	
. (2) 816	<u>N/A !</u>	(27)	
(3) 788	•N/A	(28)	· · · · · · · · · · · · · · · · · · ·
(4)824	N/A	(29)	<u> </u>
(5)	N/A	(30)	
(6)	N/A	(31)	· · · · · · · · · · · · · · · · · · ·
(7) - 762	N/A	(32)	
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Design specifications certified by
Design report* certified by P.E. State Reg. no. AN: .11% frequences bits services bits services .11.01 DEN: (IOJ DINIGED A) nonistilation is a service service AN: .11% frequences bits services bits services
Av. , Reference construction in this report are correct and that this (these) Image: Statements made in this report are correct and that this (these) Image: Statements in this report are correct and that this (these) We certify that the statements made in this report are correct and that this (these) Image: Statements in this report are correct and that this (these) Image: Statements in this report are correct and that this (these) We certify that the statements made in this report are correct and that this (these) Image: Statements in this report are correct and that this (these) Image: Statements in this report are correct and that this (these) NPT Certificate of Authorization No. 1948 Expires Image: Statements in this statements in this statements in the statements in this statements in this statements in this statements in this report are correct and that this (these) Image: Statements in this statements in the statements in this statements in this statements in the sta
We certify that the statements made in this report are correct and that this (these) Part Ill norms? All we certify that the statements made in this report are correct and that this (these) Part Ill norms? All conforms to the rules of construction of the ASME Code, Section ill. Ill norms? All Ill norms? All NPT Certificate of Authorization No. 1948 Expires Ill norms? Date 4/4/89 Name Target Rock Corporation Signed E. Bajadaf Q.A. Manage
We certify that the statements made in this report are correct and that this (these)
conforms to the rules of construction of the ASME Code, Section III, NPT Certificate of Authorization No. <u>1948</u> Date <u>4/4/89</u> Name Target Rock Corporation Signed <u>E. Duid data</u> (NPT Certificate Holder) E. Bajadal Q.A. Manager
NPT Certificate of Authorization No. 1948 Explices 12-9-89 Date 4/4/89 Name Target Rock Corporation Signed 2. INFT Certificate Holder) E. Bajadal Q.A. Managet
Date <u>4/4/89</u> Name Target Rock Corporation Signed <u>E. Bajada</u> UNIT Cardicate Holder) E. Bajada Q.A. Manage
(MET Certificate Holder) Signed E. Bajada Q.A. Manage
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 New York and employed by Commercial Union Insurance Company
of Boston, Mass. have inspected these items described in this Data Report on, and st
HEW YORK STATE COMMISSION
Date 7 / 4/ 87_ Signed ////////////////////////////////////

PLAN No 2-1481



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: 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: 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
SW(21)-2	WPPSS	SW(21)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3
SW-V-49	Borg Warner	16840	N/A	N/A	1977	Replaced	Yes, Code Class 1
SW-V-49	Borg Warner	94WS0019	N/A	N/A	1994	Replacement	Yes, Code Class 1

- 7. Description Of Work Performed: Replaced existing valve SW-V-49. The replacement work was performed as follows: 1) Removed existing valve SW-V-49, Serial No 16840.
 - 2) Installed new replacement valve SW-V-49, Serial No 94WS0019.
 - 3) Made required socket welds.
 - 4) Performed visual examination on the final socket welds. Visual examination results acceptable.

NOTES.

1) ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda for the Service Water (SW) piping system.

2) ASME Section III, Code Class 1 valve for ASME Section III, Code Class 3 application.

3) ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda for the new replacement valve SW-V-49, Serial No 94WS0019.

Date: 10/23/97 Sheet: 1 of 1 Unit: WNP-2

	5	PLAN No 2-1 WASHINGTON PUBLIC POMER SUPPLY SYSTEM
FC	ORM NIS-2 OWNER'S REPO	ORT FOR REPAIRS OR REPLACEMENTS (Back)
Tests Conducte	ed: Hydrostatic 🔄 Pneun Test Pressure: Psig Component Design Press	natic Nominal Operating Pressure Other X No Test Temperature: ° F ure: Psig Temperature: ° F
<i>Remarks:</i> See a	ttached NPV-1 Code Data Report fo	r the new replacement valve SW-V-49, Serial No 94WS0019.
	CERTI	FICATE OF COMPLIANCE
to the rules of Type Code Sy	the ASME Code, Section XI mbol Stamp: Not Applicable Authorization No.: Not Applicat	
Prepared By _ Date	Kuldip Singh - Program Lead Engir	Signed By Lulch Ruch neer (PLE) Kuldip Singh - Program Lead Engineer (PLE) Date 10/28(9)
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	CERTIFICAT	E OF INSERVICE INSPECTION
l, the undersig Vessel inspec	ned, holding a valid commi tors and the State of	ssion issued by the National Board of Boiler and Pressure and employed by have inspected the components
state to the be corrective men ASME Code, S By signing this implied, conce Furthermore, I	st of my knowledge and bel asures described in this Ow Section XI. s certificate neither the Insp eming the examinations and neither the Inspector nor his	he period to and lief, the Owner has performed examinations and taken oner's Report in accordance with the requirements of the pector nor his employer makes any warranty, expressed or a corrective measures described in this Owner's Report. Is employer shall be liable in any manner for any personal of kind arising from or connected with this inspection.

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FORM NPV-1 CERTE ATE HOLDERS' DATA REPORT FOR NUCE R PUMPS OR VALVES. As Required by the Provisions of the ASME Code, Section III, Division 1

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1. Manufactured and co	rtified by 230	O EAST. VE	ENCH AVER	E, VERSON,	CA 90058	Adart "	· ·
					-	-	
2. Manufactured for <u>10</u>	SHUNGTON PUR	LIC POUPR		TIZE MORTE		OOP RICHL	NID, 17A 99352
3. Location of installatio	In Massillion Ch	PUBLIC PO	TER SUPPA	STATES HO	TH PORER PLAN	T LOOP RIC	711.11D, NA 99352
				bne emen)			•
4. Model No., Series No	., or Type	GLOEZ	_ Drawing	76620		L	CRN_W/kc
5. ASME Code, Section	III, Division 1:			VIDETEX:197	أسالا النسائية الشميشة		JU/A (Code Cése no.)
	VALVE	-		1"		 1"	• •
6. Pump or valve	,	Nominal ini	et size,	പ	Outlet size		
7. Material: Body	SA105	Bonnet	¥/λ	•	STRUME 46	Bolting	X /A
, (a)	(Б)		(c)		 (d)		(•)
Cert.	Nat'i		Body	,	Bonnet		Disk
Holder's	Board		Seria	• •	Secial		Serial
Serial No.	No.:		No.		No.		No.
94850019	¥/λ	—	\$0865	7	×/A		308670
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*Supplemental information in form of lists, skatches, or drawings may be used provided (1) size is 8% x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.



FORM NPV-1 (Back - Pg. 2 of _2____

*						
Design conditions	3600		•F or v	alve pressure d	less	1500#
•	(preseure)	(temperat	urel			
Cold working pressure	3600	psi at 100°F				
Hydrostatic test54	00-5450 pel.	Disk differential test	pressure	396	-4010	
Remarks: MATERIA	AL: BACKSEAT	SA564 TIPT 630 (2060. H-1100	•		
CERT HOLDER'S S/M		BACKSEAT S/M	•			
94750019		308681				
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	<u> </u>	CERTIFICATION	OF DESKGN			
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esign Specification certifi	iou by	LESLIE SCHLOSS	F.C. 30808 -	WASE.	_ Reg. no.	
sign Report certified by	DAAID MIR		P.E. State .	Cl.	Reg. no.	209547
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		CERTIFICATE OF C		alve conforms	to the rules	for constructio
e certify that the stateme the ASME Code, Section Certificate of Authorizati	III, Division 1.			alve conforms		for constructio
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the ASME Code, Section Certificate of Authorizati	NIII, Division 1. on No neBR/IP IBR	port are correct and t		Expires), 1996 M
the ASME Code, Section Certificate of Authorizati	NIII, Division 1. on No neBR/IP IBR	Dort are correct and t <u> M-1131</u> ERHATICHAL, INC.	hat this pump or v	Expires	JUNE 10), 1996 M
the ASME Code, Section Certificate of Authorizati	NIII, Division 1. on No neBR/IP IBR	Dort are correct and t <u> M-1131</u> ERHATICHAL, INC.	hat this pump or v	Expires	JUNE 10), 1996 M
the ASME Code, Section Certificate of Authorizati	NIII, Division 1. on No neBR/IP IBR	Dort are correct and t <u> M-1131</u> ERHATICHAL, INC.	hat this pump or v. Signed .	Expires	JUNE 10), 1996 M
the ASME Code, Section Certificate of Authorization to LO <u>- 31 - 94</u> Nem	n III, Division 1. on No ne <u>BR/IP INT</u> (N Ce	CERTIFICATE OF #	hat this pump or v. Signed . 	Expires	JUNE 10	0, 1996
the ASME Code, Section Certificate of Authorization to <u>LO - 31-94</u> Name 	n III, Division 1. on No ne	CERTIFICATE OF It	hat this pump or v Signed . VEPECTION tional Board of Bo	Expires	JINE 10	Inspectors and
the ASME Code, Section Certificate of Authorization to LO <u>- 31 - 94</u> Nem 	n III, Division 1. on No ne	CERTIFICATE OF II	hat this pump or v Signed . VEPECTION tional Board of Bo , and employed by	Expires	JINE 10	Inspectors and
the ASME Code, Section Certificate of Authorization te LO <u>- 31 - 94</u> Name 	n III, Division 1. on No ne <u>BR/IP IHT</u> (N Ce (N Ce (N Co <u>CALTPO</u> <u>CALTPO</u>	CERTIFICATE OF II	Signed . Signed . VSPECTION tional Board of Bo , and employed by pected the pump,	Expires	JINE 10	Inspectors and AL IHS. CO.
the ASME Code, Section Certificate of Authorization to LO - 31 - 94Nem he undersigned, holding State or Province of <u>HOSSION</u> Ctober 31, 199	a III, Division 1. on No	CERTIFICATE OF II	Signed . Signed . Signed . Signed . Signed . Signed . Signed .	- Expires - - Expires - (authoriz - (authoriz - (auth	JINE 10	Inspectors and AL IHS. CO.
the ASME Code, Section Certificate of Authorization In LO - 31 - 94 Name In LO - 31 - 94 Name In LO - 31 Notest Notest of Province of NOTESTOOL Cobcr 31, 199	a III, Division 1. on No	CERTIFICATE OF II	Signed . Signed . Signed . Signed . Signed . Signed . Signed .	Expires	JINE 10	Inspectors and AL IRS. CO. Data Report of Holder has con
he ASME Code, Section ertificate of Authorizati e LO - 3L - 94 Name e undersigned, holding State or Province of NORSPOOL 20/cc 31, 199. cted this pump, or valve	a III, Division 1. on No	CERTIFICATE OF It CERTIFICATE OF It on issued by the Nar ENITA to the best of the ASME Code, S	Signed . Signed . Sig	Expires	JINE 10	Inspectors and AL IRS. CO. Data Report of Holder has con SSOCIATION
the ASME Code, Section Certificate of Authorization to LO - 31 - 94Name he undersigned, holding State or Province of NOSSOOD Ctolscr 31, 199 Acted this pump, or valve signing this certificate, a	a III, Division 1. on No ne (N Ce (N Ce))))))))))))))))))))))))))))))))))))	CERTIFICATE OF It on issued by the Nar ENITA to the best of the ASME Code, S or nor his employer r	Signed . Signed . Sig	Expires	JINE 10	Inspectors and AL IRS. CO. Data Report of Holder has con SSOCIATION concerning the
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the ASME Code, Section Certificate of Authorization to <u>LO - 31-99</u> Name the undersigned, holding State or Province of <u>NOSSCOO</u> <u>CTOLCC 31, 199</u> ucted this pump, or valve signing this certificate, a nponent described in this personal injury or prope	a III, Division 1. on No	CERTIFICATE OF II CERTIFICATE OF II on issued by the Nar ENIA that to the best of th the ASME Code, S or nor his employer a hermore, neither the s of any kind arising 0	Signed . Signed . Sig	Expires	JINE 10 ad represent d represent d represent ibed in this Certificate I icertificate I	Inspectors and AL IRS. CO. Data Report of Holder has con SSOCIATION concerning the
the ASME Code, Section Certificate of Authorization to LO - 31-94 Nem the undersigned, holding State or Province of	a III, Division 1. on No	CERTIFICATE OF IS The sum of the last of the sum of any kind arising Common of the sum of the sum of any kind arising CERTIFICATE OF IS CERTIFICATE OF IS The sum of any kind arising Commission of any kind arising Commission of any kind arising	Signed . Signed . Sig	Expires	JUNE 10 ad represent de repr	Inspectors and AL IRS. CO. Data Report of Holder has con SSOCIATION concerning the

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PLAN No 2-1482



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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 Closed Cooling (RCC) System
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2 And 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
RCC-V-219	BW/IP	E337A-1-1	N/A	N/A	1998	Replacement	Yes, Code Class 1
RCC-V-220	Dragon	PB 1303	N/A	N/A	1998	Replacement	Yes, Code Class 1
RCC-V-221	Dragon	PB 1243	N/A	N/A	1996	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Installed external bypass for valve RCC-V-40. The ASME Section III, Code Class 2 and ASME Section III, Code Class 3 replacement work was performed as follows:

A) ASME Section III, Code Class 2 Replacement Work

1) Installed new piping material such as elbows, sockolet and pipe.

2) Installed new valve RCC-V-219, Serial No E337A-1-1.

3) Made required socket welds.

4) Performed visual examination on the final socket welds. Visual examination results acceptable.

5) Performed liquid penetrant (PT) examination on the final socket welds. Liquid penetrant (PT) examination results acceptable.

NOTES -

1) The existing ASME Code Stamped piping system in which the new valve RCC-V-219, Serial No E337A-1-was installed is Reactor Closed Cooling (RCC) piping system RCC(36)-1-P2. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.

2) The new valve RCC-V-219, Serial No E337A-1 is certified to comply with ASME Section III, Code Class 1, 1986 Edition with no Addenda requirements.

3) ASME Section III, Code Class 1 valve for ASME Section III, Code Class 2 application.

B) ASME Section III, Code Class 3 Replacement Work

1) Installed new piping material such as elbows, sockolet, tee and pipe.

- 2) Installed new valve RCC-V-220, Serial No PB 1303.
- 3) Installed new valve RCC-V-221, Serial No PB 1243.
- 4) Made required socket welds.

5) Performed visual examination on the final socket welds. Visual examination results acceptable.

NOTES -

1) The existing ASME Code Stamped piping system in which the new valves RCC-V-220, Serial No PB 1303 and RCC-V-221, Serial No PB 1243 were installed is Reactor Closed Cooling (RCC) piping system RCC(36)-1-P1. This piping system is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

2) The new valves RCC-V-220, Serial No PB 1303 and RCC-V-221, Serial No PB 1243 are certified to comply with ASME Section III, Code Class 1, 1974 Edition with Winter 1976 Addenda requirements.

3) ASME Section III, Code Class 1 valves for ASME Section III, Code Class 3 application.

Date: 06/16/98 Sheet: 1 of 1 Unit: WNP-2

		NOTON PUBLIC POWER PPLY SYSTEM	PLAN No 2-
FO	RM NIS-2 OWNER'S REPORT I	OR REPAIRS OR REPLACE	EMENTS (Back)
rests Conducte	d: Hydrostatic Pneumatic Test Pressure: Psig Component Design Pressure: F	• Test Temperatu	ire:°F
Remarks: Soo at	tached NPV-1 Code Data Reports for the	blowing new valves:	· .
EPN No RCC-V-219 RCC-V-220	<u>Serial No</u> E337A-1-1 PB 1303 PB 1243		•,
RCC-V-221	FD 1240		٠ ٠
	CERTIFICA	TE OF COMPLIANCE	
to the rules of Type Code Sy Certificate Of Expiration Dat	Λ ρ , Λ° ,	Signed By	
Prepared By _ Date	Kuldip Singh - Frogram Lead Engineer (F	LE) Signed ByKuldip Singh	Program Lead Engineer (PLE)
			······
Vessel Inspec	CERTIFICATE Of oned, holding a valid commission tors and the State of his Owner's Report during the po	and employed by have in	spected the components
. described in t	his Owner's Report during the po est of my knowledge and bellef, t asures described in this Owner's	he Owner has performed example	minations and taken
state to the be corrective me ASME Code, S By signing thi implied, conce Furthermore.		r nor his employer makes an rective measures described i ployer shall be liable in any n	y warranty, expressed or n this Owner's Report. nanner for any personal
state to the be corrective me ASME Code, S By signing thi implied, conce Furthermore, injury or prop <u>Not Required - Br</u>	Section XI. is certificate neither the inspecto erning the examinations and cor neither the inspector nor his em.	r nor his employer makes an ective measures described i bloyer shall be liable in any n i arising from or connected v Commissions	y warranty, expressed or n this Owner's Report. nanner for any personal with this inspection.

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FORM NPV-1 (As I	CERTIFICATE HOLD Required by the Prov	ERS' DATA REPORT visions of the ASME	FOR NUCLEAR PUN Code, Section III, Div	NPS OR VALVES.
		International,		
1. Manufactured and c	entified by701 F	irst Street, Wil	liamsport, PA	17701
. 2. Manufactured for	Washington Publ	ic Power Supply	System, P.O. Bo	x 968, Richland,
3 Location of installati	WNP-2 OPS WHS	Complex, North	Power Plant Loo	p, Richland, WA.
		(neme	and address)	· .
4. Model No., Series No	o., or Type Piston Ch	eck Drawing W98-2	8029 Rev	CRN
5. ASME Code, Section	III. Division 1: 1	.9861	No 1	N/A
	(d	dition) (addenda 1/2!!	(class) (class)	(Code Case no.) /2 ¹¹ ;
6. Pump or valve	Nomini	ul iniet size	Outlet size	(in.)
7. Material: Body SA3	51-CF8M Bonnet	SA479-316	SA564-630-107	5 N/A Bolting
•	•			
(2)	(b)	(c)	(d)	(e)
Cert.	Nat'l	Body	Bonnet -	Disk
Holder's	Board	Serial	Serial	Serial
Serial No.	No	No.	. <u>No.</u>	<u>No.</u>
E337A-1-1	<u>N/A</u>	25	Heat #714381	Heat #714273
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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. .

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This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300,

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FORM NPV-1 (back)

	ure Seal Design
8. Remarks1/2 -10/01 02 120000 00000	
9. Design conditions <u>2735</u> psi 680 (pressure) (tempersture) 0. Cold working pressure <u>4507</u> psi at 100°F	_•F or valve pressure class1878
1. Hydrostatic test6775ptl. Disk differential test press	4958 pr
	• • •
CERTIFICATION OF DE	sign
•	PA 032082
	P.E. State PA Reg. no PE-039036-I
eaign Report Certified by	
	• .
CERTIFICATE OF SHOP CON	IPLIANCE
/e carlify that the statements made in this report are correct and that this f the ASME Code, Section III, Division 1.	s pump or valve conforms to the rules for construction
Certificate of Authorization NoN1712	Expires 4/15/98
BW/IP International, Inc.	Delise Andrealace
Ate	Signed A Contraction of Contraction
	(authorized representative)
	(authorized representative)
	(authorized representative)
CERTIFICATE OF SHOP INSP	
CERTIFICATE OF SHOP INSP	PECTION .
CERTIFICATE OF SHOP INSP the undersigned, holding a valid commission issued by the National I	ECTION. Board of Boiler and Pressure Vessel Inspectors and
CERTIFICATE OF SHOP INSP the undersigned, holding a valid commission issued by the National I a Stata MKBINWCCO of <u>Pennsylvanja</u> and e	ECTION Board of Boiler and Pressure Vessel Inspectors and Imployed by <u>Commercial Union Ins. Co.</u>
CERTIFICATE OF SHOP INSP the undersigned, holding a valid commission issued by the National I a State MKRINNED of <u>Pennsylvania</u> and e <u>Boston</u> , Mass. have inspected	ECTION Board of Boiler and Pressure Vessel Inspectors and imployed by <u>Commercial Union Ins. Co.</u> the pump, or valve, described in this Data Report on
CERTIFICATE OF SHOP INSP the undersigned, holding a valid commission issued by the National I e State MKDRAWNODE of Pennsylvania and e Boston, Mass have inspected have inspected	ECTION Board of Boiler and Pressure Vessel Inspectors and employed by <u>Commercial Union Ins. Co.</u> the pump, or valve, described in this Data Report on my knowledge and belief, the Certificate Holder has
CERTIFICATE OF SHOP INSP the undersigned, holding a valid commission issued by the National I e State MKRAWADE of <u>Pennsylvania</u> and e <u>Boston</u> , <u>Mass</u> . <u>have inspected</u> <u>31/11222</u> , and state that to the best of n matructed this pump, or valve, in accordance with the ASME Code, Sec	ECTION Board of Boiler and Pressure Vessel Inspectors and imployed by <u>Commercial Union Ins. Co.</u> the pump. or valve, described in this Data Report on my knowledge and belief, the Certificate Holder has tion III, Division 1.
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CERTIFICATE OF SHOP INSP the undersigned, holding a valid commission issued by the National I a State MKRNNODE of <u>Pennsylvania</u> and e <u>Boston</u> , <u>Mass</u> . have inspected <u>ALLANSE</u> . 19 <u>PL</u> , and state that to the best of m matructed this pump, or valve, in accordance with the ASME Code, Sec signing this certificate, neither the inspector nor his employer makes mponent described in this Data Report. Furthermore, neither the inspect y personal injury or property damage or a loss of any kind arising from o 2020 20 20 20 20 20 20 20 20 20 20 20 20	ECTION Board of Boiler and Pressure Vessel Inspectors and employed by <u>COMMErCial Union Ins. Co.</u> the pump, or valve, described in this Data Report on my knowledge and belief, the Certificate Holder has tion III, Division 1. any warranty, expressed or implied, concerning the tor nor his employer shall be liable in any manner for r connected with this inspection.
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(1) For manually operated valves only.

FROM : DRAGON VALVES INC. : NORWALK, CA

FORM NPV-1. N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES. 6/15/98

	lequired by the Provis	the second se				
Manufactured by Drago	n Valves, Inc. 1	3457 Excel	sior Dr., No	rwalk, CA	. 90650	
Wash.	Public Power Su	р. Sys., P	.0. Box 966,	Richland	/ 141/ 500	52
Location of Installation	Name and Address of Purch	Plant Loo	p, Richland,	WA., 993	52	
Location of Installation	(Nems and Address)		1/	2 0	1	/2
•			liet Bize(in	ch)		(inch)
(a) Model No., (b) h	l Certificate Holder's	(c) Canadian		_	(ſ) Nat'l.	(g) Yea
Series No.		Registration	(d) Drawing No.	(e) Class	Bd. No.	Built
or Type	No.	No.				
(1) 7N057SWD	PB1303	N/A	16954	1	- N/A	1998
(2)	δι.		Rev. A			
(3)	PB1304					
(4)						
(5)	RCC-V-2	20 SIN	PB 1303	5		
(6) (7)			.			
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(9)	*					
(10)						
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		I convice for whi	ch equipment was de	sloped)		
Cold Working Pressure	3600 psi (Pressure) 	100 ·			1500	
Cold Working Pressure Pressure Retaining Piecos	3600 psi (Pressure) _3600psi at 10	100 · (Tamperatura) O°F.	"F or Valve Pr	essuro Class		
Cold Working Pressure	3600 psi (Pressure) 	100 · (Tamperatura) O°F.		essuro Class	1500 Remark	
Cold Working Pressure Pressure Retaining Piecos	3600 psi (Pressure)psi at 10	100 · (Tamperatura) O°F.	"F or Valve Pr	essuro Class		
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Cold Working Pressure Pressure Retaining Piecos Mark No.	3600 psi (Pressure)psi at 10	100 · (Tamperatura) O°F.	"F or Valve Pr	essuro Class		
Cold Working Pressure Pressure Retaining Piecos Mark No.	3600 psi (Pressure)psi at 10	100 · (Tamperatura) O°F.	*F or Valve Pr Manufact	essuro Class		
Cold Working Pressure	3600 psi (Pressure)psi at 10	100 · (Tamperatura) O°F.	*F or Valve Pr Manufact	essuro Class		
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(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each shoot is numbered and number of shoots is recorded at top of this form.

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*	FORM NPV	'•1 (Back)	
Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
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(d) Other Parts			
HT 712678	1 ASME 53564 CR. 630	Carpenter Mach.	Disc

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Hydrostatic test pri	 Disk Differential test 	pressure3600ps	·	•	

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of
construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition 1974
Addenda Code Case No Date March 24, 1998
Signed Dragon Valves, Inc. by Mark a Source
(N Certificate Holder)
Our ASME Certificate of Authorization No. <u>N-1033</u> to use the <u>N</u> symbol expires <u>3/6/99</u> (Dete)

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply Systems Stress analysis report (Class 1 only) on file at Washington Public Power Supply Systems

Design specifications certified by (1) Abbas A. Mostala	
PE State WA Reg. No 0028777	
Stress analysis certified by (1) Harold M. Braund	
PE State Reg. No 20589	
	,
(1) Signature not required. List name only.	

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of <u>CALIFORNIA</u> and employed by <u>H.S.B.</u> INSP. & INS. CO. of <u>HARTFORD</u> , CT. <u>B. D.Y.</u> 19 <u>C.</u> , and state that to the best of my knowledge and belief, the N Certificate Holder has con- structed this pump, or valve, in accordance with the ASME Code, Section III.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be flable in any manner for any personal injury or property damage, or a loss of any kind arising from or connected with this inspection. Date $3 \cdot 24$ 19 98. Curve $7 \cdot 1284$ Commissions 44.1526 (Inspector)

, 	As	on Valves, Inc		elsior Dr., N	forwalk, C	A. 90650	4
		(Name and Address - 'Public Power	of N Certificate H	loider)			2
		(Name and Address of P	hanchaser or Owner)		-		
		NP-2 North Policies (Name and Address)					1/2
4. Pump or Va		alve		Infet Size(in	Ou ich)	tlet Size	(inch)
		N Certificate Holder'		(d) Drawing	,	(1) Nat'l.	(g) Ye
	is No. Type	Seriat 🚬 No.	Registration No.	No.	(e) Class	Bd. No.	Built
		 PB1238		16954	1	N/A	199
(1) <u>7NU</u> (2)	<u>575WD</u>	Thru	<u>N/A</u>		*		
(1)	······	PB1243					
(4)							
(5)							
(7)		RCC-V-	221,5	N PB120	43		
(8)	* ×	· · · · · · · · · · · · · · · · · · ·					
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• Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2° x 11°, (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form. Is recorded at top of this form. (10/77)

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

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WASHINGTON PUBLIC POWER SUPPLY. SYSTEM FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI Date: 06/04/98 1. Owner: Washington Public Power Supply System (WPPSS) Sheet: 1 of 1 Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 Unit: WNP-2 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS) (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, 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

PLAN No 2-1483

a.

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(1)-4A	WPPSS	RHR(1),-4A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
RHR-V-42A	Velan	0377	N/A	N/A	1977	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Installed external bypass for valve RHR-V-42A, Serial No 0377. The replacement work was performed as follows:

1) Installed new piping material such as pipe, pilot boss.

2) Made required welds.

3) Performed visual examination on the final welds. Visual examination results acceptable.

4) Performed liquid penetrant (PT) examination on the final socket welds. Liquid penetrant (PT) examination results acceptable.

NOTES -

1) The existing ASME Code Stamped piping system applicable to valve RHR-V-42A, Serial No 0377 is Residual Heat Removal (RHR) piping system RHR(1)-4A-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing valve RHR-V-42A, Serial No 0377 on which the external bypass was installed is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Summer 1973 Addenda requirements.

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		Unit: WNP-2
à	3. (a) Work Performed By: Washington Public Power Supply System (WPPSS) (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 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 Bullt	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
HPCS(2)-1 HPCS-V-15	WPPSS Anchor Darling	HPCS(2)-1-P1 E5310-3-1	N/A N/A	N/A N/A	1983 1975	Replacement Replacement	Yes, Code Class 2 Yes, Code Class 2
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7. Description Of Work Performed: Installed external bypass for valve HPCS-V-15. The replacement work was performed as follows:

1) Installed new piping material such as tee, reducing insert, half coupling and pipe.

2) Installed new valve HPCS-V-86, Serial No PB 1239

3) Made required welds.

4) Performed visual examination on the final welds. Visual examination results acceptable.

5) Performed liquid penetrant (PT) examination on the final socket welds. Liquid penetrant (PT) examination results acceptable.

NOTES.

1) ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda for the High Pressure Core Spray (HPCS) piping system HPCS(2)-1-P1.

2) ASME Section III, Code Class 2, 1971 Edition with Summer 1971 Addenda for valve HPCS-V-15, Serial No E5310-3-1.

3) ASME Section III, Code Class 1 valve HPCS-V-86, Serial No PB 1239 for ASME Section III, Code Class 2 application.

	SUPPLY SYSTEM
FO	RM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
sts Conducte	d: Hydrostatic Pneumatic Nominal Operating Pressure Other No Test Pressure: Psig Component Design Pressure: Psig Temperature: ° F
emarks: Soo at	tached NPV-1 Code Data Report for the new valve HPCS-V-86, Serial No PB 1239.
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	CERTIFICATE OF COMPLIANCE
o the rules of ype Code Sy certificate Of J	the statements made in this Owner's Report are correct and this replacement conforms the ASME Code, Section XI. mbol Stamp: Not Applicable Authorization No.: Not Applicable e: Not Applicable E: Not Applicable Signed By July Surgh Kuldip Singh - Program Lead Engineer (PLE)
Date	Date5/22/98
	CERTIFICATE OF INSERVICE INSPECTION
the undersig fessel inspec	ned, holding a valid commission issued by the National Board of Boller and Pressure tors and the State of
lescribed in t tate to the be corrective me SME Code, S	his Owner's Report during the period to to and st of my knowledge and belief, the Owner has performed examinations and taken asures described in this Owner's Report in accordance with the requirements of the Section XI.
mplied, conce Furthermore.	s certificate neither the inspector nor his employer makes any warranty, expressed or eming the examinations and corrective measures described in this Owner's Report. neither the inspector nor his employer shall be liable in any manner for any personal erty damage or a loss of any kind arising from or connected with this inspection.
<u>Not Required - R</u> Ir	

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	-	(Name and Address)		Inlet Size		-	/2
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	or Type	No.	No.	No.	(c) Class	Bd. No.	Built
	•	· ·		16954	1	N/A	1998
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 Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form. (10/77) -8027

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

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Mark No.	Material Spec. No.	Manufacturer	Remarks
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RECEIPT IN 52

PLAN No 2-1490



SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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 Disc Insert Disc Insert Nozzle Nozzle	Crosby Crosby Crosby Crosby Crosby	N63790-00-0053 N93185-45-0160 N93185-56-0249 N93184-44-0112 N93184-56-0174	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	1980 N/A N/A N/A N/A	Replaced Replacement Replaced Replacement	Yes, Code Class 1 No, Code Class 1 No, Code Class 1 No, Code Class 1 No, Code Class 1

7. Description Of Work Performed: Replaced parts and bolting material for spare relief valve Serial No N63790-00-0053. The replacement work was performed as follows:

- 1) Removed existing disc insert Serial No N93185-45-0160 from the spare relief valve.
- 2) Installed new replacement disc insert Serial No N93185-56-0249 in the spare relief valve.
- 3) Removed existing disc nozzle Serial No N93184-44-0112 from the spare relief valve.
- 4) Installed new replacement nozzle Serial No N93184-56-0174 in the spare relief valve.

5) Performed VT-3 visual examination on 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 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.

8) Reassembled the spare relief valve.

9) Reinstalled VT-3 visually examined existing studs and nuts for the relief valve body to bonnet joint.

10) Performed VT-1 visual examination on three (3) new replacement studs for the relief valve inlet joint. VT-1 visual examination results acceptable.

11) Installed VT-1 visually examined three (3) new replacement studs for the relief valve inlet joint.

12) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve body to bonnet joint. Leakage was observed during VT-2 visual examination and was evaluated to be acceptable.

NOTES -

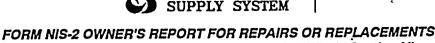
1) The spare relief valve Serial No N63790-00-0053 was installed in the plant in accordance with ASME Section XI Plan No 2-1493. 2) VT-3 visual examination on the existing nuts for the relief valve inlet joint was performed in accordance with ASME Section XI Plan No 2-1493.

Date: 06/23/98 Sheet: 1 of 1 Unit: WNP-2

						PLAN No 2-149
			INNETON PUBLIC PORT		,	•
FC	ORM NIS-2 OWN	ER'S REPORT	FOR REPAIRS	OR REPLACE	EMENTS (B	ack)
est s Conducto	ed: Hydrostatic [Test Pressure: Component De		<u> </u>	Operating Pres Test Temperatu Temperature: 57	<i>Ire:</i> 71 ⁰ F	Other None
emarks: None						
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	t the statements		vner's Report ar	e correct and t	his replacem	ont <i>conforms</i>
	f the ASME Code, /mbol Stamp: Not .	•			·	
	Authorization No				,	P
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repared By _	Julans.	Jane	Signed By	, Kud	1 Si	veb .
	Kuldip Singh - Progra	am Lead Engineer (F			Program Lead	Engineer (PLE)
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PLAN No 2-1491



As Required By The Provisions Of The ASME Code Section XI

WASHINGTON PUBLIC POWER

1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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

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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-RV-2A MS-RV-2A	Crosby Crosby	N63790-00-0053 N63790-00-0054	N/A N/A	N/A N/A	1980 1980	Replaced Replacement	Yes, Code Class 1 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 Serial No N63790-00-0053 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) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.

4) Performed VT-1 visual examination on four (4) new studs for the relief valve inlet joint. VT-1 visual examination results acceptable.

5) Installed replacement relief valve with Serial No N63790-00-0054 with set pressure of 1185 Psig at rated temperature of 575° F.

6) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint.

7) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.

8) Installed VT-1 visually examined new studs for the relief valve inlet joint.

9) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

NOTES -

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0054 was installed is Main Steam (MS) piping system B22-G001A-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The replacement relief valve Serial No N63790-00-0054 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements.

4) The replacement relief valve Serial No N63790-00-0054 was previously refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The refurbishment work was performed in accordance with NWS Technologies, LLC VR and NR programs and is documented in ASME Section XI Plan No 2-1533.



8 Tes	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) ts Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other * Test Pressure: 1024 Psig Test Temperature: 240° F Component Design Pressure: 1250 Psig Temperature: 575° F
Code I inlet joi	marks: 1) See attached NVR-1 Code Data Report for replacement relief valve Serial No N63790-00-0054, 2) See attached N ata Report for replacement relief valve Serial No N63790-00-0054, 3) * The test pressure and the test temperature on the relie nt was recorded during ASME Section XI pressure test which was performed in accordance with PPM No OSP-RPV-R801 *Re re Vessel Leakage Test*.
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	CERTIFICATE OF COMPLIANCE
Ty Ca Es Pr	the rules of the ASME Code, Section XI. pe Code Symbol Stamp: Not Applicable rtificate Of Authorization No.: Not Applicable piration Date: Not Applicable epared By <u>Julaip Suip</u> Signed By <u>Julaip</u> , <u>Guip</u> Kuldip Singh - Program Lead Engineer (PLE) te <u>66698</u> te <u>6698</u>
	*
Ve of pe Ou In By Im Fu	CERTIFICATE OF INSERVICE INSPECTION he undersigned, holding a valid commission issued by the National Board of Boiler and Pressure ssel inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company Natham, Massachusetts have inspected the components described in this Owner's Report during to riod to and state to the best of my knowledge and belief, the wher has performed examinations and taken corrective measures described in this Owner's Report accordance with the requirements of the ASME Code, Section XI. signing this certificate neither the Inspector nor his employer makes any warranty, expressed on piled, concerning the examinations and corrective measures described in this Owner's Report. rthermore, neither the Inspector nor his employer shall be liable in any manner for any personal ury or property damage or a loss of any kind arising from or connected with this inspection.
	Inspector's Signature Commissions <u>745610/7486 NITSB</u> National Board, State, and Endorsements

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			Contraction Cont
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			AN NO. 2-1491
	As Required by the Pa	FETY AND SAFETY RELIEF VALVES rovisions of the ASHE Code Rules DATA REPORT d Safety Relief Valves	9.C440 Hueanp Sups 6/3198
• 1		•	- NA 02002
	·· -	ne and Address	
2	2. Manufactured For San Jose, CA	ric Company, 175 Curtner Ave 95125Order No	••
	Name and 3. OwnerWashington Public Power	Address Supply System, Richland, Wa	shington 99352
÷	3. Owner Washington Tabile Tower Nam 4. Location of Plant Hanford Rese	and Address	
	5. Valve Identification MPL #B22-F013 s		
	5. Value Identification <u>FFL #B22=F015</u> S Type Safety Relief Safety, Safety Relief, Pilot, Power Actuated	Orifice Size_R_Pipe Size	,*
	6. Set Pressure (psig) 1185		575° F
		<u>3</u> ZOverpressureBlowdown (p	
	Hydrostatic Test (psig) Inlet2	975 psig (# 370 Outlet 1100 psig (#	ssembled Valve)
	Pressure Retaining Pieces	(Applicable to Valves	for Closed Systems Only)
		ntification Include	al Specification Ing Type or Grade
	· · · · · · · · · · · · · · · · · · ·		A105-71 Gr. II SA105 Gr. II
·	Bonnet NS	ASTM 03407-35-0036 ASME	A105-71 Gr. II SA105 Gr. 11
	b. Bateriagocorouginge .		
		23185-34-0086 ASME	SA637 Gr. 718
7	NozzleN9	3184-33-0058 ASME	SA182 Gr. F316
	Disc Holder*K55484-35-0090 *N8	9714-34-0090 AMS 5	662B
	K6		A105-71 Gr. 11 SA105 Gr. II
-	Adjusting Bolt N9		SA193 Gr. B6
	• Spindle Point K62873-35-0054 *N8	9720-34-0093 ASIM	A564-71 Type 630 SA564 Type 630
	c. Spring K62858-35-0036	2689-0117 ASTM	A304-66 Gr. 4161E
1	d. Bolting	<u>7 X (</u>	10380137
	Spindle Ball 6. XCHXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	3213-0054 Stell	ite #6
	Thrust Bearing Adapter N9		SA193 Gr. B6
		<u>3207-0645 thru 0656 ASME</u>	A193-71 Gr. B7 SA193 Gr. B7
	Bonnet Stud Nut (J87) N9		SA194 Gr. 2H.
	Inler Stud (BW6) N9		A193-71 Gr. $B7$ SA183 Gr $B7$
	Inler Stud Nur (BW8) N9		A194-71 Gr. 2H SA ^{**} 4 Gr. 2H

÷	ACOUSTING BOLD, and Indust Bearing Adapter, Learning of the Serial Sector, New Serialization is required unless indicated by an asterisk. Original nameplate removed and new nameplate attached.
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	CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this valve cont 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. Giannet
	Our ASHE Certificate of Authorization No. 1878 . to use the NV
	symbol expires September 30, 1983 (Date)
Γ	. CERTIFICATION OF DESIGN
1	Design information on file at Crosby Valve & Gage Company
	Stress analysis report (Class 1 only) on file at <u>Crosby Valve & Gage Company</u>
	43 Kendrick Street, Wrentham, Massachusetts 02093
	Design specifications certified by <u>Bovd P. Brooks</u>
	PE State CaliforniaReg. No13655
	Stress report certified by W.D. Greenlaw
	PE State Massachusetts Reg. No. 14784
	¹ Signature not required - list name only.
Γ	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 <u>Massachusetts</u> and employed by <u>Factorv Mutual Systems</u> * of <u>Norwood</u> , <u>Massachusetts</u> have inspected the pump, or valve, described in this Data Report on <u>11119</u> , 19 <u>(0)</u> 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. Further- more, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Date ()11/191980
	Signed MARTIN Commissions MASS 1266
L	(Inspector)- (Nat'l. Bd., State, Prov. and No.)
	Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery 1
	ZX00380138

PLAN No 2-1492



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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
MS-RV-1B MS-RV-1B	Crosby Crosby	N63790-00-0139 N63790-00-0140	N/A N/A	N/A N/A	1994 1994	Replaced Replacement	Yes, Code Class 1 Yes, Code Class 1
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7. Description Of Work Performed: Replaced existing relief valve MS-RV-1B. The replacement work was performed as follows: 1) Removed existing relief valve Serial No N63790-00-0139 with set pressure of 1165 Psig at rated temperature of 565° F.

- 2) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable.
- · 3) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.
- 4) Performed VT-1 visual examination on three (3) new studs for the relief valve inlet joint. VT-1 visual examination results acceptable.
- 5) Installed replacement relief valve with Serial No N63790-00-0140 with set pressure of 1165 Psig at rated temperature of 565° F.
- 6) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint.
- 7) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.
- 8) Installed VT-1 visually examined new studs for the relief valve inlet joint.

9) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

NOTES -

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0140 was installed is Main Steam (MS) piping system B22-G001B-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The replacement relief valve Serial No N63790-00-0140 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with , no Addenda requirements.

4) The replacement relief valve Serial No N63790-00-0140 was previously refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The refurbishment work was performed in accordance with NWS Technologies, LLC VR and NR programs and is documented in ASME Section XI Plan No 2-1540.

Date: 06/05/98 Sheet: 1 of 1 Unit: WNP-2

<u> </u>	
	PLAN No 2-1 MASILINGTON FULLIC FORER SUPPLY SYSTEM
	DRM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
8 Tests Conducte	ed: Hydrostatic Pneumatic Nominal Operating Pressure Other Test Pressure: 1024 Psig Component Design Pressure: 1250 Psig Temperature: 575° F
Code Data Report for	e attached NVR-1 Code Data Report for replacement relief valve Serial No N63790-00-0140, 2) See attached NV-1 replacement relief valve Serial No N63790-00-0140, 3) * The test pressure and the test temperature on the relief val d during ASME Section XI pressure test which was performed in accordance with PPM No OSP-RPV-R801 *Reactor age Test*.
	• • •
	CERTIFICATE OF COMPLIANCE
to the rules of Type Code Sy Certificate Of	it the statements made in this Owner's Report are correct and this replacement conforms if the ASME Code, Section XI. Imbol Stamp: Not Applicable Authorization No.: Not Applicable te: Not Applicable Signed By Julah Ruch Kuldip Singh - Program Lead Engineer (PLE) CJE 8 Date 66698
	CERTIFICATE OF INSERVICE INSPECTION
Vessel Inspect of Waltham, Ma period Owner has per in accordance By signing th Implied, conc Furthermore,	gned, holding a valid commission issued by the National Board of Boller and Pressure ctors and the State of Washington and employed by Arkwright Mutual Insurance Company assachusetts have inspected the components described in this Owner's Report during the series of the state to the best of my knowledge and belief, the enformed examinations and taken corrective measures described in this Owner's Report e with the requirements of the ASME Code, Section XI. Is certificate neither the Inspector nor his employer makes any warranty, expressed or terning the examinations and corrective measures described in this Owner's Report. neither the Inspector nor his employer shall be liable in any manner for any personal perty damage or a loss of any kind arising from or connected with this inspection.
1.11	Commissions /////74/86 1075825 National Board, State, and Endorsements
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1. Work p	erformed by:	NWS Techr 131 Venture B			Purchase O SC 29301		1 Juich Su
2. Work p	erformed for:	Washington Pr			•		6319
3/4. Owne	er - name, add		fication of nucl	lear power p	olant: Washin	igton Public Powe	er Supply Sys
5. a: Rep	aired pressure	relief device:	Main Steam	Safety Reli	ef Valve		
		urer: Crosby	Valve & Gage	Co.			
c: Iden	tifying nos.	-1B-65-BP-DF	N63790-01				
di Con	struction Code	(type) : ASME Sec.	· (mfr's S/I	-	• • •	vice) (size N/A	e) (yr.) •
u. Con:		(name/section		1971 (edition)	N/A (addenda)	(Code Cases(s))	(Code Cla
6 ASME	ada Castien \		•		•	N/A	-
0. ASIME C	ode Section /	KI applicable for	r inservice insp	pection:	1989	(addenda)	N/A (Code Case
7. ASME C	ode Section X	(I used for repa	irs, renlaceme	nte:	(edition) . 19 89	N/A	N/A
	, , , , , , , , , , , , , , , , , , ,			, , , , , , , , , , , , , , , , , , ,	(edition)	(addenda)	(Code Case
8. Constru	ction Ćode use	ed for repairs, r	eplacements:		1971	N/A	N/A
				• .	(edition)	(addenda)	(Code Case
9. Design r	esponsibilities	: N/A					
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	a procento, 1	1b5 05l0	1				
10. Openin		the second s	-			• • • • • • • •	
-		ient made at:	NWS Tech	hnologies, L	LC u:	sing <u>steam</u>	
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Set-pre 11. Descri	ssure adjustm ption of work (i	ient made at: . include name and i	Identifying number	r of replaceme	nt parts): Disas	sembled, lapped	seats.
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	CRO	<u>SBY</u>		NO. 2-1492	Q.C44C-1 Burchip Surge to
	FO	As Required by		-	ES લંકલક
	1. Manufactured by Model No. <u>HB-65</u>	(Name ar	nge Company 43 Kendrick S nd Address of N Certificate NV4000468 Contrac		nal Board No
	2. Manufactured for		LIC POWER SUPPLY SY: Name and Address)	STEM RICHLAND.WØrder N	o.238136 C/N 02
	3. Owner WA	ASHINGTON PUBLIC	POWER SUPPLY SYSTE (Name and Address)		
圓	4. Location of Plant_	HANFORD # 2			
I	5. Valve Identification	n_B22-F013	Serial NoN63	790-01-0140 Drawing No.	DS-A-63790-1 REV 0
同		IAIN STEAM ty Relief, Pilot, Power /		2 Pipe Size Inlet6 h) (Inch) (In	Cutlet 10 ch) (Inch)
	6. Set Pressure	1165.0		65F Temperature	
	Stamped Capacity Hydrostatic Test (T.STM.@_3 % Overpre	ssure <u> </u>	2 THRU 11
			vorkmanship comply with A		
言	Class_1Edition	on <u>1971</u> , Addenda Da		se No	
	a. Castings		Serial No. Identification	Material Specificatio	
	Body Bonnet b. Bar Stock & For	ninas	<u>N93183-47-0130</u> N93407-47-0058	ASTM A105 GR.II ASTM A105 GR.II	
	Support Rod Nozzle Disc		N93184-53-0167 N93185-52-0204 N93186-41-0060	ASME SA182 GR.F ASME SA637 GR.7	
	Spring Wash Adjusting Bo Spindle c. Spring		N93187-40-0007 N93410-33-0007 N96461-34-0015 NX2689-0138	ASTM A105 GR.II ASME SA193 GR.B ASTM A564 TYPE ASTM A304 GR.41	630
	d. Bolting . Other Pieces DISC HOL		N89714-42-0279	AMS5662B(INCON	EL718)
	- BONNET S	BUTTON EARING ADAPTER TUD	N96460 N93411-36-0015 N93409-35-0012 N93207	<u>ASTM A276 T4400</u> <u>ASME SA193 GR.B</u> <u>ASTM A193 GR.B6</u> <u>ASTM A193 GR.B7</u>	6
	BONNET N INLET STU INLET NUT		N93210 N93216 N93218	ASME SA194 CL.21 ASTM A193 Gr.B7 ASTM A194 CL.2H	

Q.C.-44C-1 The state the second state of the second state of the 4042 · and the second second second and a second We certify that the statements made in this report are correct. by Lawrence for Date <u>27</u> Signed Crosby Valve & Gage Company Manufacturer Certificate of Authorization No.____1878_____ expires 30 SEP 95. The second of the second second and the second second second second second second second a second second second · · · 11 and the second second MILLEN and a second white and a sub-the second of the second of the second general second second second of the second **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 <u>Massachusetts</u> and employed by <u>Arkwright -Boston Manufacturers</u> Mutual Insurance Company have inspected the equipment described in this Data Report on Ma - 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. **Factory Mutual System** 5 /27 . 19<u>94</u> Date Commissions MGHSS Signed (inspector) (Nat'l. Bd., State, Prov. and No.) Constant of the second statement of the second of the second statement of the second statements and second s

PLAN No 2-1493



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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
MS-RV-3B	Crosby	N63790-00-0051	N/A	N/A	1981	Replaced	Yes, Code Class 1
MS-RV-3B	Crosby	N63790-00-0053	N/A	N/A	1980	Replacement	Yes, Code Class 1.

7. Description Of Work Performed: Replaced existing relief valve MS-RV-3B. The replacement work was performed as follows: 1) Removed existing relief valve 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) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.
- 4) Installed replacement relief valve with Serial No N63790-00-0053 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) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

NOTES -

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0053 was installed is Main Steam (MS) piping system B22-G001B-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The replacement relief valve Serial No N63790-00-0053 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements.

4) The replacement relief valve Serial No N63790-00-0053 was previously refurbished by Supply System and the refurbishment work performed is documented in ASME Section XI Plan No 2-1490.

Date: 06/05/98 Sheet: 1 of 1 Unit: WNP-2

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	Ś	SUPPLY		-	PL.	AN No 2
FO	ORM NIS-2 OWNER'S R	EPORT FOR RE	PAIRS OR R	EPLACEM	ENTS (Back)	•
Tests Conducte	ed: Hydrostatic Pro Test Pressure: 1024 Psi Component Design Pr	,	Test Te	ling Press. Emperature rature: 575°	: 240° F	er 💼
e test temperature on	attached NV-1 Code Data Rep n the relief valve inlet joint was i 301 "Reactor Pressure Vessel L	recorded during ASM	elief valve Serial I E Section XI pres	io N63790-00 sure test whic	-0053, 2) * The te h was performed i	st pressur n accorda
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Certificate Of J	Authorization No.: Not Ap					
Expiration Dat	te: Not Applicable				•	
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repared by _	Kuldip Singh - Program Load I	Engineer (PLE)		dip Singh - Pr	ogram Lead Engir	eer (PLE
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by signing this implied, conce	erning the examinations	and corrective I	neasures des	cribed in th	is Owner's R	eport.
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injury or prope	erty damage or a loss of	'any kind arising	y from or coni	nected with	this inspection	on.
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MS-RV-3R • & GAGE COMPANY VALVE CROSBY CROSBY WRENTHAM. MASS PLAN NO. 2-1493 i FORM NV-1 FOR SAFETY AND SAFETY RELIEF VILVES As Required by the Provisions of the ASME Code Rules same A DATA REPORT Safety and Safety Relief Valves 1. Hanufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093 Name and Address , N/A Hodel No. HB-65-BP-FN Order No. N94275 Contract Date 4/24/79 National Board No. General Electric Company, 175 Curtner Ave., 205-AJ986 2. Hanufactured For San Jose, CA 95125 Order No. Name and Address 3. Owner Washington Public Supply System, Richland, Washington 99352 Name and Address 4. Location of Plant Hanford Reservation, Richland, Washington 99352 5. Valve Identification MPL #B22-F013 Serial. No. N63790-00-0053 Drawing No. DS-A-63790 Rev. C Orifice Size R Pipe Size -- Inlet 6 Outlet 10 Safety Relief Type_ Inch Inch Inch Safety, Safety Relief, Pilot, Inch Pover Actuated ... <u>575⁰</u> 6. Set Pressure (psig) 1185 Rated Temperature, Bloudown (psig)___ '2% to 11% A 3 ZOverpressure 891,750 Stamped Capacity 975 psig (Assembled Valve) 1100 psig (Body Only) 2370 Hydrostatic Test (psig) Inlet Outlet (Applicable to Valves for Closed Systems Only) $\cdot \mathbf{z}$ Pressure Retaining Pieces Serial No. Material Specification Including Type or Grade Bar Stock & Forgings Identification ASTM A105-71 Gr. II ASME SA105 Gr. II N93183-35-0072 Body ASTM A105-71 Gr. II ASME SA105 Gr. II N93407-35-0035 Bonnet b. Bacchroopcingraphers - ASME SA637 Gr. 718 N93185-34-0085 Summan Disc Insert ASME SA182 Gr. F316 N93184-33-0057 Nozzle *N89714-34-0089 K62856-35-0091 AMS 5662B Disc Holder*K55484-35-0082 ASTM A105-71 Gr. II ASME SA105 Gr. II K62857-35-0056 Spring Washers K62858-35-0035. N93410-33-0060 ASME SA193 Gr. B6 Adjusting Bolt ASTM A564-71 Type 630 *N89720-34-0085 ASME SA564 Type 630 SpindlePoint K62873-35-0053 *N89722-0011 ASTM A304-66 Gr. 4161H c. Spring K62858-35-0035 <u>7 X O O 3 8 O</u> d. Bolting Spindle Ball c. When Kingers K Stellite #6 N93213-0053 CXRACCA K62873-35-0053 ASME SA193 Gr. B6 N93409-32-0055 Thrust Bearing Adapter A193-71 Gr. B7 BW5) N93207-0633 thru 0644 (117. Bonnet Stud ASME SA194 Gr. 2H (J87) N93210-0853 thru 0864 Bonnet Stud Nut A193-71 Gr. B7 SA193 Gr. B7 (BW6) N93216-0635 thru 0646 Inlet Stud ASTM A194-71 Gr. ASME SA194 Gr. 2H 2H (BW8) N93218-0639 thru 0650 · Inlet Stud Nut ASME SA193 Gr. B6 N93411-33-0062

Adjusting Bolt Button

modification consists of replacement of the bisc insert, notific, sound bloc inter, 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.

		1403790-00-0	035
/ CERTIFICAT	E OF COMPLIANCE		
We certify that the statements made in this to the rules of construction of the ASME Co III, Div. 1, 1971 Edition, Addenda	de for Nuclear Power Plant	Components, S	Sectio
Class	4		
Date 11-5-20 Signed Crosby Va	lve & Gage Co. by T.	q. lasar	mt
- (N Certi	ficate 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 o	nly) on file at Crosby Valve & Gage Company
43 Kendrick Street, Wrentham, M	lassachusetts 02093
Design specifications certified b	y Boyd P. Brooks
PE State <u>California</u>	Reg. No. 13655
Stress report certified by	W. D. Greenlaw
PE State Massachusetts	Reg. No. 14784
¹ Signature not required - list nam	me only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler an Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by <u>Factory Mutual Systems</u> of <u>Norwood, Massachusetts</u> have inspected the pump, or valve, described in this Data Report on <u>1//2/</u>, 1967 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 Plan 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. Bd., State, Prov. and (Inspector

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machine Div

ZX00380128

PLAN No 2-1494



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
 - (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
MS-RV-4B MS-RV-4B	Crosby Crosby	N63790-00-0055 N63790-00-0058	N/A N/A	N/A N/A	1980 1980	Replaced Replacement	Yes, Code Class 1 Yes, Code Class 1

7. Description Of Work Performed: Replaced existing relief valve MS-RV-4B. The replacement work was performed as follows: 1) Removed existing relief valve 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) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.

4) Performed VT-1 visual examination on three (3) new studs for the relief valve inlet joint. VT-1 visual examination results acceptable...

- 5) Installed replacement relief valve with Serial No N63790-00-0058 with set pressure of 1195 Psig at rated temperature of 575° F.
- 6) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint.
- 7) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.

8) Installed VT-1 visually examined new studs for the relief valve inlet joint.

9) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

NOTES-

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0058 was installed is Main Steam (MS) piping system B22-G001B-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The replacement relief valve Serial No N63790-00-0058 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements.

4) The replacement relief valve Serial No N63790-00-0058 was previously refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The refurbishment work was performed in accordance with NWS Technologies, LLC VR and NR programs and is documented in ASME Section XI Plan No 2-1535.

Date: 06/05/98 Sheet: 1 of 1 .Unit: WNP-2

		UNGTON FOULIC FORER PPLY SYSTEM	1	PLAN No 2-1
FO	RM NIS-2 OWNER'S REPORT I	, FOR REPAIRS OR ,	REPLACEMENTS (E	Back)
Demarks: 1) See Tode Data Report for re	d: Hydrostatic Pneumatic Test Pressure: 1024 Psig Component Design Pressure: 1 attached NVR-1 Code Data Report for rej placement relief valve Serial No N63790 during ASME Section XI pressure test wh ge Test".	Test 1250 Psig Temp placement relief valve Ser -00-0058, 3) * The test pre	Temperature: 240° F erature: 575° F Ial No N63790-00-0058, 2) ssure and the test tempera	ture on the relief val
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to the rules of t Type Code Syn Certificate Of A Expiration Date	Guidan Brigs 6		Lubip Singh - Program Lead	
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	CERTIFICATE OI	F INSERVICE INSP		- <u></u>
Vessel Inspecto of Waltham, Mas period ////////////////////////////////////	ned, holding a valid commission ors and the State of Washington a sachusetts have inspected the c formed examinations and taken with the requirements of the AS certificate neither the inspector ning the examinations and corr either the inspector nor his emp ty damage or a loss of any kind	and employed by An omponents describe _ and state to the be corrective measure ME Code, Section X r nor his employer n rective measures de ployer shall be liable	wight Mutual Insurance ad in this Owner's Re st of my knowledge a s described in this O l. nakes any warranty, scribed in this Owne in any manner for a	e Company port during the and belief, the wner's Report expressed or r's Report. ny personal
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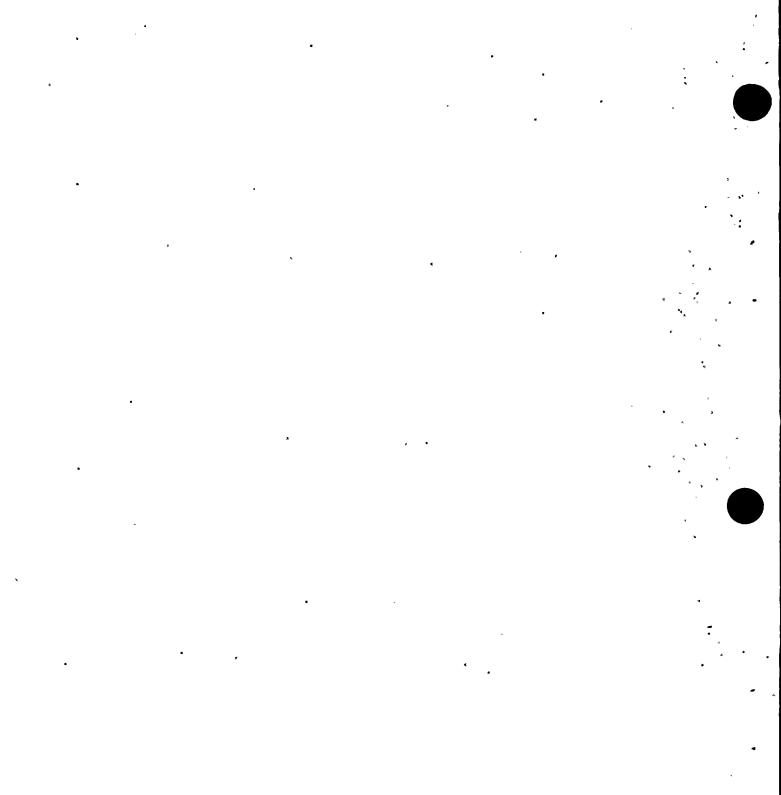
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1. Work performed b	y: NWS Technol 131 Venture Boul	logies, LLC levard, Spartanburg	Purchas	e Order :		ib Supb .
2 Work performed fr	or: Washington Publi			 .	y	614198
3/4. Owner - name, a	address and identification of the second sec	ation of nuclear powe	er plant: Wa		Public Power	Supply System
5. `a: Repaired press		Main Steam Safety R			<u> </u>	
c: Identifying nos.	HB-65-BP-FN	N63790-00-0058	<u>N/A</u>	steam	<u>6 x 10</u>	
d: Construction Co	(type) ode: ASME Sec. III (name/section/div		(NB#) N/A	(service)	(size) N/A de Cases(s))	(yr.bui 1 (Code Class)
6. ASME Code Section			198	9	<u>N/A</u>	N/A
7. ASME Code Section	on XI used for repairs	, replacements:	(editio 198		(addenda) <u>N/A</u>	(Code Case(s) N/A
8. Construction Code	used for repairs, repl	acements:	(editio . 197	1	(addenda) N/A	(Code Case(s)) N/A
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Set-pressure adjust						
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		DATA REPORT and Salety Reliaf Valves	•	.	
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4	Hodel No. <u>HB-65-BP-TN_Order</u> No.	Name and Address		4	
	2. Hasulactured ForSan_Jose	etric Company, 175 Cur	ther Ave., 205-A1		
		and Address	•		
•		Home and Address Home and Address Hervation. Richland, Wa	•	·	
•	4. Location of PlantHanford Res 5. Value Identification MPL #822-FO			-63790 Bery C	
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	6. Set Pressure (paigi1195	<u> </u>	- 575 ⁰	i	·
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7 • •	Bydrostatic Test (reig) Inler2	370 Outlet	1768 Bill (Assembl		
	PERSONA BATATATA PLOTA	(Apolicable	to Valves for Closed 5	ystene Only)	
	Bar Stock & Forgings	Serial He. Identification	Naterial Specific Including Type or		
	Body	N93183-35-0077	ASTE \$193572. Cr	11111	
	Bennet	¥93407-35-0040	ASTH A105-71 Gr ASHE SA105 Gr.	i1 ^{II}	
	a sheet and a second se		ASTE SA637 Gr.	••	
	Maximum Disc Insert	<u>1193185-34-0090</u> 1193184-33-0062	ASHE SA037 CF.		
	Mezzie Disc Holds:**K55484-35-0093	W89714-34-0094	ANS 5662B	· ·	
		£63839=33=8886	ASTH A105-71 Gr ASHE SA105 Gr.		•
	Adjusting Bolt	N93410-33-0065	ASHE SA193 Gr. 1		
	Spindle Point K62873-35-0058_	W89720-34-0070	ASTHE \$356271	P\$3830	1
7		N89722-0016	ASTH A304-66 Gr.	<u>. 4161H</u>	
	• d. Bolting Spindle Ball • This Clark K62873-35-0058	N93213-0058	Stellite 16		
	Thrust Bearing Adapter	N93409-32-0060	ASHE SA193 Gr. 1		
<u> </u>		N93207-0693 thru 0704 N93210-0913 thru 0924	ASHE SA193-71 CT ASHE SA193 CT ASHE SA194 CT.		
	Inlet Stud (BW6)	N93216-0695 thru 0706	AST# 6119576-51		
	Inlet Stud Nut (BW8)	193215-0699 thru 0710	ASTR A194-71 Gr	in and a second s	
t	Adjusting Bolt Button \$63618-33-0067	193411-33-0067 Sefe	ASRE SA193 Gr. 1	J6	
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.ZX00382751

Valve originally brilt against Crosby Order Ko. <u>NIO3600</u>, Assembly No. <u>N36000</u>. Valve modification consists of replacement of the Disc Insert, Nozzle, Bonnet Stud Muts, Adjusting Bolt, and Thrust Basring 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 strached.

SNN 63790-00-0058.

Kudip

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We certify that the statements made in this report are correct and that this valve confi to the rules of construction of the ASMZ Code for Nuclear Power Plant Components, Section 121. Div. 1. 1971 Edition, Addenda Ho Addenda Code Case No. 1967.1.1711	011 ·
Class 2 (Date)	
Date 11-5-20 Signed Crosby Valve & Gare Co. by R.G. Calaurun	<u>×</u>
(H Certificate Holder)	
Our ASME Certificate of Authorization No. 1878 to use the NV	

symbol expires September 30, 1983

	CERTIFICATION OF DESIGN
Design information on file at	Crosby Valve & Gage Company
	only) on file at Crosby Value & Cage Company ham, Mansachusetts 02093
	by Boyd P. Brooks
Design specifications certified	byBdyd P. Brooks Reg. No17655
Design specifications certified	Reg. No

Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Bo⁴ Pressure Vessel Inspectrs and the State or Province of <u>Massachusetts</u> and employed by <u>Factory Mitual Systems⁶</u> of <u>Norwood, Massachusetts</u> have inspected the pump, or valve, described in this Data Report on <u>11/25</u>. 9<u>...</u> and state that to the beat of my knowledge and belief, the N Cartificate Holder has constructed this pump, cr valve, in accordance with the ASNE Code for Nuclear Power Plant Components.

By signing this cartificate, neither the Inspector nor his employer makes any warrant, expressed or implied, conserning 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.

10/12 2000. Date 22 C.M_enotesta 1260 Signed_ (Nat'l. Bd., State, Prov. and No.) (Inspector)

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"Arieright-Boston Hanufacturers Hutual Insurance Company - Hutual Boiler & Hachinery Div.

PLAN No 2-1495 PASHINGTON PUBLIC POWER SUPPLY SYSTEM FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI Date: 06/05/98 1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 Sheet: 1 of 1 Unit: WNP-2 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS) (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
MS-RV-5B	Crosby	N63790-00-0059	N/A	N/A	1980	Replaced	Yes, Code Class 1
MS-RV-5B	Crosby	N63790-00-0062	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description Of Work Performed: Replaced existing relief valve MS-RV-5B. The replacement work was performed as follows: 1) Removed existing relief valve Serial No N63790-00-0059 with set pressure of 1205 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) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.
 - 4) Installed replacement relief valve with Serial No N63790-00-0062 with set pressure of 1205 Psig at rated temperature of 575° F.
 - 5) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint.
 - 6) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.
 - 7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

NOTES -

- 1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0062 was installed is Main Steam (MS) piping system B22-G001B-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.
- 2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.
- 3) The replacement relief valve Serial No N63790-00-0062 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements.
- 4) The replacement relief valve Serial No N63790-00-0062 was previously refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The refurbishment work was performed in accordance with NWS Technologies, LLC VR and NR programs and is documented in ASME Section XI Plan No 2-1536.



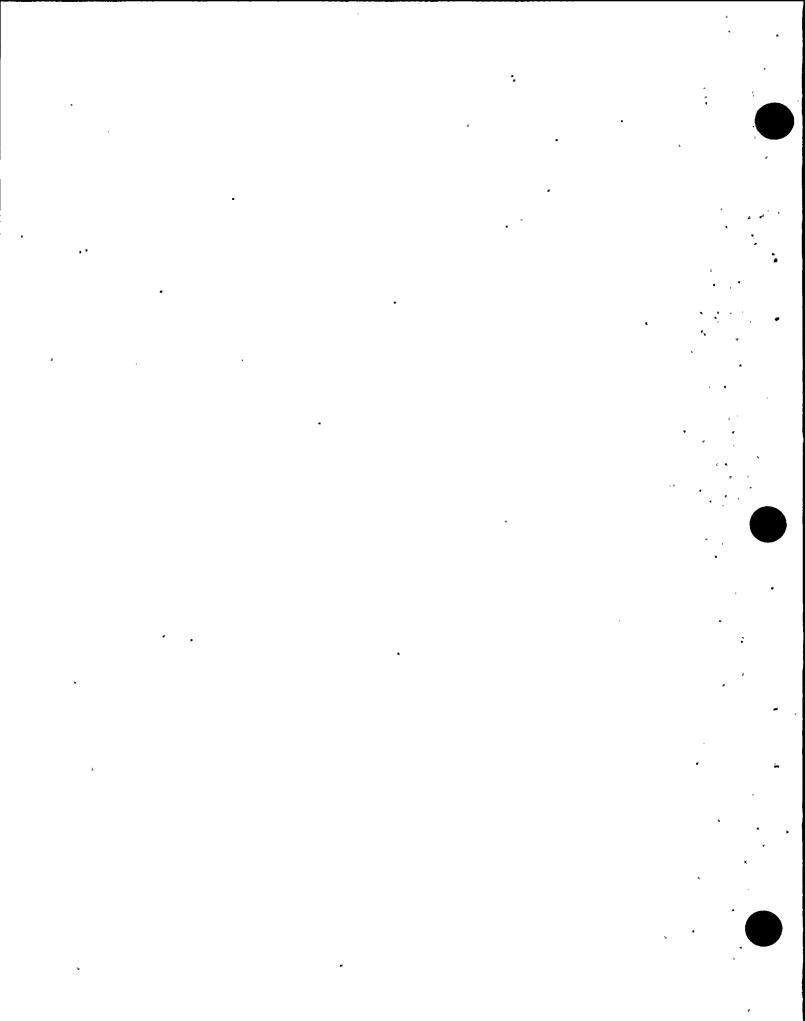
		A WASHINGTON	I PUBLIC POWER		PLAN No 2
			Y SYSTEM	1	
FOI	RM NIS-2 OWNER'S	REPORT FOR I	REPAIRS OR	REPLACEMEN	ITS (Back)
Tests Conducted	d: Hydrostatic 🛄 P Test Pressure: 1024 P Component Design I	'sig	Test	rating Pressure Temperature: 24 perature: 575° F	● Other ● 0° F
de Data Report for re	attached NVR-1 Code Data eplacement relief valve Serie during ASME Section XI pro ge Test".	I No N63790-00-006	62, 3) * The test p	ressure and the test i	emperature on the relief v
	C	ERTIFICATE O	F COMPLIAN	ICE	<u> </u>
to the rules of a Type Code Syn	the statements made the ASME Code, Sect mbol Stamp: Not Applica Authorization No.: Not A e: Not Applicable	ion XI. ble	Report are co	orrect and this w	placement <i>conforms</i>
	Kuldip Singh - Program Lea	d Engineer (PLE)		Kuldip Singh - Progra	am Lead Engineer (PLE)
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Ins	spector's Signature			National Board, Str	te, and Endorsements
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	Vashington Public Power Su					
3/4. Owner - name, addre WNP-2. North Power	ess and identification of nucl Plant Loop, Richland, WA 9	ear power 9352-0968	plant: Wast	nington	Public Power	Supply S
5. a: Repaired pressure I	relief device: Main Steam	Safety Reli	ief Valve			
	rer: Crosby Valve & Gage			_		
	B-65-BP-FN N63790-00		N/A [·]	steam	6 x 10	
	(type) (mfr's S/		(NB#) (*	service)	(size)	(
d: Construction Code:	ASME Sec. III Div. 1	1971	<u>N/A</u>	·	<u>N/A</u>	1
	(name/section/division)	(edition)	(addenda)	(Co	de Cases(s))	(Code (
6. ASME Code Section XI	applicable for inservice insp	pection:	1989		N/A -	N//
•			(edition	·	(addenda)	(Code Ca
7. ASME Code Section XI	used for repairs, replaceme	ents:	1989	·	<u>N/A</u>	N/A
•		N	(edition)	(addenda)	(Code Ca
8. Construction Code use	d for repairs, replacements:		1971	•	N/A	N/A (Code Ca
•	••		(edition)	(addenda)	
9. Design responsibilities:	N/A			``		
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<i>.</i>		B GAGE COMPANY AN', MASS PLAN. NO, 2-1495
	FORM NV-1 FOR SAFETY AND SAFETY RELIEF V As Required by the Provisions of the ASME Co DATA REPORT Safety and Safety Relief Valves	ILVES Guldif Sup Q.C44D
	1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St Name and Address	Wrentham, HA 02093
	Model No. <u>HB-65-BP-FN</u> Order No. <u>N94275</u> Contract Date <u>4</u> General Electric Company, 175 Curtr 2. Manufactured For <u>San Jose</u> , <u>CA 95125</u> Name and Address	Mer Ave., Drder No. 205-AJ986
•	3. Owner Washington Public Power Supply System, Richlan Name and Address 4. Location of Plant Hanford Reservation, Richland, Was	
	5. Valve Identification MPL #B22-F013Serial No. N63790-00-00 Type Safety Relief -Orifice Size R Pig	62Drawing No. DS-A-63790 Rev. C be Size - Inler 6 Outlet 10 Inch Inch Inch
т.	Power Actusted	5:5° F
		Rated Temperature
47 3	scanped	5 psig (Annembled Velks) U psig (Redy Only)
	Applicable : Pressure Retaining Pieces	o Valves for Closed Systems Only;
	Bar Stock & Forgings Identification a. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Naterial Specification Including Type or Grade
	Body	ASTM AL05-71 Gr. 11 ASME SA105 Gr. 11 ASTM A105-71 Gr. 11
	BonnetN93407-35-0044	ASME_SALC5 Gr. II
	b. MAXXHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	ASME SA637 Gr. 718
	Nozzle N93184-33-0066	ASME SA182 Gr. F316
7	Disc Holder*K55484-35-0088 *N89714-34-0119	AMS 56628
-	Spring Washers K62858-35-0044 K62856-35-0100 K62857-35-0065	ASTM A105-71 Gr. II ASME SA105 Gr. II
	Adjusting Bolt <u>N93410-33-0069</u>	ASME SA193 Gr. B6 •
	Spindle Point K62873-35-0062 *N89720-34-0074	ASTM A564-71 Type 630 ASME SA564 Type 630
	c. Spring K62858-35-0044 <u>*N89722-0020</u> d. Bolting	ASTM A304-66 Gr. 416111
	Spindle Ball . M93213-0062	Stellite 1600380156
	Thrust Bearing Adapter N93409-32-0064	ASME SA193 Gr E6
	Bonnet Stud (BW5, I17) N93207-0741 thru 0752 Bonnet Stud Nut (J87) N93210-0961 thru 0972	ويستعددون ويستعجبونه ففبجسان شدقتهما وملدقة فالفقيه فالقاد
	Bonnet Stud Nut (J87) N93210-0961 thru 0972 Inlet Stud (BW6) N93216-0743 thru 0754	ACT24 A162 71 Cm
	Inlet Stud Nut (BW8) N93218-0747 thru 0758	ASTM A194-71 Gr. 2H

~	Bonnet, and Spincle Assembly, and adding an Adjusting bolt putton Assembly. Ack Serialization is required unless indicated by an asterisk. Original nameplate removed and new nameplate attached. NW 3790-00:0002
Ξŷ	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 & 171 Class 1 (Date) Date 1/-5-80 Signed Crosby Valve & Gage Co. by. M.G. Cadaward (N Certificate Holder)
	Our ASME Certificate of Authorization No. 1878 to use the NV
	symbol expires <u>September 30, 1983</u> . (Date)
[
	CERTIFICATION OF DESIGN
	Design information on file at <u>Crosby Valve & Gage Company</u>
	Stress analysis report (Class 1 only) on file at <u>Crosby Valve & Gage Company</u> 43 Kendrick Street, Wrentham, Massachusetts 02093
	Design specifications certified by Boyd P. Brooks
	PE State California 'Reg. No. 13655
12	Stress report certified by W.D. Greenlaw
	PE State <u>Massachusetts</u> Reg. No. <u>14784</u>
	¹ Signature not required - list name only.
_	· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF SHOP INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by Factory Mutual Systems* of <u>Norwood</u> , <u>Massachusetts</u> have inspected the pump, or valve, described in this Data Report on <u>11/18</u> , 1980
:	and state that to the best of my knowledge and belief, the N Certificate Holdet 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, toncerning the equipment described in this.Data Report. Further- more, 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 SignedCommissions (Inspector)Commissions (Nat'1. Bd., State, Prov. and No.)
, , , , , ,	*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div
	ZX00380157
•	, , , , , , , , , , , , , , , , , , ,

•	PLAN No 2-1496
SUPPLY SYSTEM	
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLA As Required By The Provisions Of The ASME Code Se	
1. Owner: Washington Public Power Supply System (WPPSS)	Date: 06/05/98
Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)	Unit: WNP-2
Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)	
(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (c) Type Code Symbol Stamp: Not Applicable	(WPPSS)
(d) Certificate Of Authorization No.: Not Applicable	· · ·
(e) Expiration Date: Not Applicable A. Identification Of System: Main Steam (MS) System	- 4

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.	Ÿear Built∙	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
MS-RV-3C MS-RV-3C	Crosby Crosby	N63790-00-0052 N63790-00-0138 (N56000-01-0038)	N/A N/A	N/A N/A	1980 1973	Replaced Replacement	Yes, Code Class 1 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 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) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.

4) Installed replacement relief valve with Serial No N63790-00-0138 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) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

NOTES -

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0138 was installed is Main Steam (MS) piping system B22-G001C-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The replacement relief valve Serial No N63790-00-0138 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements. Relief valve Serial No N56000-01-0038 (Pre - Modification Serial No) was previously modified by Crosby to Serial No N63790-00-0138.

4) The replacement relief valve Serial No N63790-00-0138 was previously refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The refurbishment work was performed in accordance with NWS Technologies, LLC VR and NR programs and is documented in ASME Section XI Plan No 2-1539.

Ne certify that the statements made in this o 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	RT FOR REPA				
Test Pressure: 1024 Psig Component Design Pressure: Replacement To Nuclear Components And Systems In 20:00-0136, 3) See attached NV-1 (Pre - Modification) ware and the test temperature on the relief valve inlet [c dance with PPM No OSP-RPV-R801 "Reactor Pressure" Idence with Idence attements and the Inspector Pressure Idence with Idence attements of the ASME Code, Section XI. Idence with Idence attements of the ASME Code, Section XI. Idence with Idence attemption and the Inspector on the Idence attemption and the Inspector on the Idence attemption attem		AIRS OR R	EPLACEN	IENTS (Ba	ck)
Replacement To Nuclear Components And Systems In 50-00-0136, 3) See attached NV-1 (Pre - Modification ware and the test temperature on the relief value inlet [value and the test temperature on the relief value inlet [value and the test temperature on the relief value inlet [value and the test temperature on the relief value inlet [value and the test temperature on the relief value inlet [value and the test temperature on the relief value inlet [value and the test temperature on the relief value inlet [value and the test temperature on the relief value inlet [value with PPM No OSP-RPV-R801 *Reactor Pressed In the value 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	Test Te	ting Prèss emperature rature: 575	e:240° F	Other •
We certify that the statements made in this o 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	Nuclear Power Pl Code Data Report int was recorded d	ants" Certifica t for relief valv luring ASME S	tion Report (C e Serial No N	2C 292A) for re 56000-01-003	Hief valve Serial N 3, 4) * The test
We certify that the statements made in this o 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		r			
o 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	ICATE OF CO	MPLIANC	E		
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				Valve & Gage		•			
	c: Identifyin	ig nos. <u>Hi</u>	B-65-BP-FN	N63790-0			team	<u>6 x 10</u>	
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	6 ASME Code	Section VI		•		•		N/A	N/A
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•	CROSBY PLAN No. 2-1496	0.C292, I SHEET 1 0
	REPAIR AND REPLACEMENT TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POW	18
1	Work performed by <u>Crosby Valve & Gage Company</u> 43 Kendrick St. Wrentham, MA 0209 (Name and Address) (Repair organization's P.O. No., Job No., etc.). <u>NV4000020</u>	3
2	. Owner WASHINGTON PUBLIC POWER RICHLAND.WA 99352-0968 (Name and Address)	
3	Name and Identification of Nuclear Power Plant <u>HANFORD #2</u>	4
4	Address of Nuclear Power Plant_RICHLAND_WA	
5.	a. Identifying Nos. <u>N63790-00-0138</u> (Mfr's Serial No.) (Nat'l Bd. No.) (Jurisdiction No.) (Other) b. Identification of component repaired or replacement component <u>-</u> c. Name of Manufacturer_ CROSBY VALVE & GAGE COMPANY	1973 (Year Built)
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7.	. Tests conducted: Hydrostatic (X) Pneumatic () Design Pressure () Pressure2370.0 . Identification of System MAIN STEAM	psi
7.	. Tests conducted: Hydrostatic (X) Pneumatic () Design Pressure () Pressure2370.0	psi
7.	Tests conducted: Hydrostatic (X) Pneumatic () Design Pressure () Pressure2370.0 Identification of System MAIN STEAM Applicable Section(s) III of ASME Code, 19.71 Edition	psi
7.	. Tests conducted: Hydrostatic (X) Pneumatic () Design Pressure () Pressure2370.0 . tdentification of System MAIN STEAM . Applicable Section(s) of ASME Code, 19_71 Edition Addenda_NO Code Case . Description of work N56000-01-0038 WAS MODIFIED TO N63790-00-0138 (Use of additional sheet(s) or sketch(es) is acceptable if correctly identified) ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA. D.Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES: PART PART NO. MODIFIED TO PART NO.	psi
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7.	. Tests conducted: Hydrostatic (X) Pneumatic () Design Pressure () Pressure2370.0 . Identification of System	psi
7.	. Tests conducted: Hydrostatic (X) Pneumatic () Design Pressure () Pressure2370.0 . Identification of System MAIN STEAM Applicable Section(s) of ASME Code, 19_71 Edition Addenda_NO Code Case Description of work_N56000-01-0038 WAS MODIFIED TO N63790-00-0138 (Use of additional sheet(s) or sketch(es) is acceptable if correctly identified) ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA. D.Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES: PART PART NO. MODIFIED TO PART NO. BODY N90118 N93183-44-0127 BONNET N89717 N93407-45-0056 SPINDLE ASSY K55465 K62873-43-0057 SPR.WASHER N89724 K62856-45-0204 SPR.WASHER N89723 K62857-45-0022 PART PART NO. REPLACED WITH NOZZLE N89713 N93184-51-0154 DISC INSERT N89715 N93185-52-0201 THR.BRG.ADAPT.N89725 N93410-31-0004	psi
7. 8. 9.	. Tests conducted: Hydrostatic (X) Pneumatic () Design Pressure () Pressure2370.0. . Identification of System MAIN STEAM S	psi

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NO. THE OWNER OF CONTRACTOR OF CONTRACTOR OF CASE OF C 15.5.5 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and all design, material, and workmanship on this MOD. conforms to the applicable section of the ASME Code. (repair/replacement) Signed (Authorized Rep. of Repair Organization) (Date) (Title) e * ***** 20 233 CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of __Massachusetts_ and employed by ___ Factory Mutual of <u>Norwood</u>, Massachusetts _ have inspected the repair or replacement described in this report on Feb_25. 1994 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this report. Furthermore, neither the inspector nor his employe shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Factory Mutual Systems 19 Date Slaned Commissions_ (Inspector) (Nat'l. Bd., State, Prov. and No.) a feel and a second second 0 1" 30 "++ mart" 0", + -----120 MAY 16 12 Mar **:.... . . .

PLAN NO. 2-1496 Hundrip Sings 614198

WPPSS S/N	WPPSS Set	Bailly S/N	Balliv Set	41 4
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	
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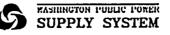
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		RENTHAM, MASS
		PLAN NO. 2- PLAN NO. 2- PLAN NO. 2-
FORM As r	NV-1 FOR SAFETY AND SAFE required by the Provisions of the	
	DATA REPORT Safety and Safety Relief	
1. Manufactured By Crosby Val	ve & Gage Co., 43 Ken	drick St., Wrentham: Mass. 0209
;	Name and Address	• *
Model No. <u>HB-65-BP-FN</u> General EL	Order No <u>N-105286</u> ectric Company	Contract Date6/28/71
2. Manufactured For_San Jose, (California Name and Address	Order No205-AD148
	-	11y Generating Station Nuclear
5. Owner	Name and Address	Baileytown, Indiana
4. Location of Plant Baileytown,	Indiana,	· · · · · · · · · · · · · · · · · · ·
5. Valve Identification MPL #B-22-	F013_Serial No. N56000-01	-0038 Drawing No. H-56000 Rev. C
Salety.Salety Relief.Pilot.Pow	ver Actuated	R Pipe Size - Inlet 6 Outlet
6. Set Pressure (PSIG) 1175		575° Rated Temperature
	ż ` . 9	ressure Blowdown <u>xR3f0x57</u>
Stamped Capacity_005550	Lbs. Hr. « % Overp	ressure Blowdown <u>xxxrox</u>
Sat. Steam		
	2 <u>370</u>	
Hydrostatic Test (PSIG) inlet		aplete Valve 825
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Hydrostatic Test (PSIG) Inlet 7. The material, design, construction an Class Edition 1 or II Pressure Containing or Pressure Reta	ad workmanship comply with ASM <u>1971</u> Anning Components Serial No.	Material Specification
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Hydrostatic Test (PSIG) Inlet 7. The material, design, construction an Class Edition 1 or II Pressure Containing or Pressure Retained	ad workmanship comply with ASM <u>1971</u> Anning Components Serial No.	Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASME SA-105 Gr. II
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Hydrostatic Test (PSIG) Inlet 7. The material. design, construction an Class <u>1</u> Edition I or II Pressure Containing or Pressure Reta a. CHEXTER Forgings Body Bonnet CEXTER b. Bar Stock and Forgings	al workmanship comply with ASM <u>1971</u> alloring Components Serial No. Identification <u>N90118-32-0009</u> <u>N89717-32-0022</u>	Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASTM A-105-71 Gr. II ASTM A-105-71 Gr. II ASTM A-105 Gr. II
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Serial No. 00 Identification Including Type of Grade 0. Spring ASTM A-304-66 GT. 4161H 0. Boling			•	• •	د .
Identification Leftentification Leftentification ASTM A-304-66 Gr. 4161H Indec Stud Nut N897718-0449 thru 0460 ASTM A-193-71 CF. 21 OTHER PARTS Spindle Rall N897712-0044 Stud Nut N89721-0044 Stud State Gr. 103-71 Gr. 10 Gr. 10 Gr. 10 Gr. 10 Gr. 10 CERTIFICATE OF SHOP INSPECTION Intrust Board of Boding a valid commission issued by the Numonal Board of Boding a valid commission issued by the Numonal Board of Boding a valid commission issued by the Numonal Board of Boding a valid commission issued by the Numonal Board of Boding a valid commission issued by the Numon	.[· , ·		• • • • •
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e. IMPORTENT NEWSCREEN CONSUMERY					
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OTHER PARTS Spindle Ball N89721-0044 Stellite 6 BARS & FORGINGS ASTM A-193-71 Gr. B6 Thrust Bearing Adapter N89725-32-0033 ASTM A-193-71 Gr. B6 We certuly that the statements made in this report are correct. Date _10-31_ 19 7.3_ Signed Crosby Valve & Gage Co. By Manuager Date _10-31_ 19 7.3_ Signed Crosby Valve & Gage Co. By QA Manager Certificate of Authorization No331 expires November 9, 1974 Certificate of Authorization No331 CERTIFICATE OF SHOP INSPECTION Manufacturer Manufacturer and employed by Manufacturer has confirmed at Boiler and Pressure Vessel inspectors and the State or Province of	•			ASTM A-194	-71 Cl. 2H
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We certify that the statements made in this report are correct. Date <u>10-31</u> 19 <u>73</u> Signed <u>Crosby Valve & Gage Co.</u> By <u>Mamman</u> QA Manager Certificate of Authorization No. <u>331</u> expires <u>November 9</u> , <u>1974</u> 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 <u>Matham</u> , <u>Mass</u> have inspected the equipment described in this Data Report Oct. <u>1097</u> , <u>1097</u> , and state to the basis of my knowledge and belief, the Matham, <u>Mass</u> have inspected the equipment described in this Data Report. <u>Put has</u> <u>1097</u> , and state to the basis of my knowledge and belief, the Matham, <u>Mass</u> have inspected the equipment described in this Data Report. <u>1097</u> , and state to the basis of my knowledge and belief, the Matham, <u>Mass</u> have inspected the equipment described in this Data Report. <u>1097</u> , and state to the basis of my knowledge and belief, the Matham, <u>Mass</u> have inspected the equipment described in this Data Report. <u>1097</u> , and state to the basis of my knowledge and belief. The Matham, <u>Mass</u> have pressed or implicable Subsection for his employer makes any warranty, es- pressed or implications of ASME Section III. By signing this certificate, neither the inspection for his employer makes any warranty, es- pressed or implied. concerning the equipment described in this Data Report. <u>Furthermore</u> , neither the inspection for his employer shall be liable in any inspection. <u>Matham Additional Branet</u> , <u>10, 10, 10, 10, 10, 10, 10, 10, 10, 10, </u>			N89725-32-0033	ASTM A-193 ASME SA-193	-/1 Gr. 86 Gr. 86
Date <u>10-31</u> 19 <u>73</u> Signed <u>Crosby Valve & Gage Co.</u> <u>Manufacturer</u> <u>QA Manager</u> Certificate of Authorization No. <u>331</u> expires <u>November 9</u> , <u>1974</u> <u>CERTIFICATE OF SHOP INSPECTION</u> <u>I the undersigned, holding a valid commission issued by the National Board of Boiler and <u>Pressure Vessel Inspectors and the State or Province of <u>MASS</u> and employed by <u>Mutual Boiler & Machinery Insurance Co.</u> <u>Waltham</u>, <u>Mass</u> have inspected the equipment described in this Data Report on <u>Crother 1</u> <u>1972</u> and state that to the best of my knowledge and bellef. the Manufacturer has constructed this equip- ment in accordance with the applicable Subsections of ASME Section III. By signing this certificate, neither the Inspector on this employer makes any warranty, ex- pressed 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 connection with this inspection. <u>Matual Board State</u>. <u>16 73</u> <u>Actual 4</u> <u>(Inspector)</u> <u>National Board, State</u>. <u>Province and No.</u></u></u>					· · · · · · · · · · · · · · · · · · ·
I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>MASS</u> and employed by <u>Mutual Boiler & Machinery Insurance Co.*, Waltham, Mass</u> have inspected the equipment described in this Data Report on <u>Corte here in 1</u> 1972 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equip- ment in accordance with the applicable Subsections of ASME Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, ex- pressed 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. <u>Fractory Mutual Group of Insurance Co.</u> Date <u>Cortobred 31</u> 1973 <u>Acoucting 1973</u> <u>Acoucting 1973</u> <u>Acoucting 1973</u> <u>Acoucting 10</u> Commissions <u>M.B. 26665</u> <u>Marce</u> 1696 National Board. State. Province and No.)		. : .	Manufacturer	Q	Manager
I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Mass</u> and employed by <u>Mutual Boiler & Machinery Insurance Co.*, Waltham, Mass</u> have inspected the equipment described in this Data Report on <u>Cortechertication</u> 1972 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equip- ment in accordance with the applicable Subsections of ASME Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, ex- pressed 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. <u>Factory Mutual Group of Insurance Co.</u> Date <u>Cortecherication</u> 1973 <u>Asymptotication</u> Commissions <u>M.B. 26665</u> <u>Marcs</u> 1696 (Inspector)		. : .	Manufacturer	Q	Manager
Mutual Boiler & Machinery Insurance Co.*, Waltham, Mass. have inspected the equipment described in this Data Report on <u>Crtekreling</u> 1972 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equip- ment in accordance with the applicable Subsections of ASME Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, ex- pressed 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. Mass of the Section of Insurance Co. Date Crtokrer 31 19 73 Acrossing Commissions M.B. 26665 Mass 1096 (Inspector)		. : .	Manufacturer	Q	Manager
By signing this certificate, neither the inspector nor his employer makes any warranty, ex- pressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. #Factory Mutual Group of Insurance Co. Date Criticir 31 19 73 Acric 1 d. Charcener Commissions N.R. 26.65 Mars. 1696 (Inspector)		Certificate of Authorization No.	Manufacturer 331 expires Novembe CERTIFICATE OF SHOP INSPECTION	Q4 1 <u>x 9, 1974</u> N	
Sational Braid. State. Printinge and X0.1	•	Certificate of Authorization No I. the undersigned, hold Pressure Vessel Inspecto Mutual Boiler & Ma inspected the equipment d state that to the best of m	Manufacturer 331 expires Novembe CERTIFICATE OF SHOP INSPECTION ding a valid commission issued by the Nors and the State or Province of Nachinery Insurance Co.*. We described in this Data Report on Context my knowledge and belief, the Manufacture my knowledge and belief.	V Ational Board of Boil Mass and em altham, Mass bit i 197 197	er and ployed by have
3-3.73	•	Certificate of Authorization No	Manufacturer 331 expires Novembe CERTIFICATE OF SHOP INSPECTION ding a valid commission issued by the N ors and the State or Province ofN achinery Insurance Co.*. We described in this Data Report on <u>Crtc</u> my knowledge and belief, the Manufactur the applicable Subsections of ASME Sec ate. neither the Inspector nor his employ erning the equipment described in this D loyer shall be liable in any manner for a und arising from or connected with this *Factory Mutual Gro	V A trinal Board of Boil MASS. and em- altham, MASS. the third of Boil MASS. and em- altham, MASS. the third of the second tring the third of the second tring the second tring of the second tring the second tring of the second tring the second tring of the second tring the second tring tring the second tring tright tring t	ler and ployed by have 2 and his equip- hy, ex- re. neither property
	•	I. the undersigned, hold Pressure Vessel Inspecto Mutual Boiller & Ma inspected the equipment d state that to the best of m ment in accordance with th By signing this certifica pressed or implied, concer the Inspector nor his empli damage or a loss of any kin Date Certoiner 31 Ácomació i Cila	Manufacturer 331 expires Novembe CERTIFICATE OF SHOP INSPECTION ding a valid commission issued by the N ors and the State or Province of Achinery Insurance Co.*, We described in this Data Report on Cortec my knowledge and belief, the Manufactur the applicable Subsections of ASME Sec ate. neither the Inspector nor his employ erning the equipment described in this D loyer shall be liable in any manner for a wind arising from or connected with this *Factory Mutual Gro 	V Ational Board of Boil Mass. and em altham, Mass. the total 197 rer has constructed the tion III. ver makes any warrand ata Report.Furthermo hay personal injury or inspection. UP of Insurance <u>C. Mass. 109</u>	er and ployed by have 2 and his equip- by, ez- re. neither property e Co.
	•	L. the undersigned, hold Pressure Vessel Inspecto Mutual Boiler & Ma inspected the equipment d state that to the best of m ment in accordance with th By signing this certifica pressed or implied, concer the Inspector nor his empli damage or a loss of any ki Date C: toires 31 Amachi f. C	Manufacturer 331 expires Novembe CERTIFICATE OF SHOP INSPECTION ding a valid commission issued by the N ors and the State or Province of Achinery Insurance Co.*, We described in this Data Report on Cortec my knowledge and belief, the Manufactur the applicable Subsections of ASME Sec ate. neither the Inspector nor his employ erning the equipment described in this D loyer shall be liable in any manner for a wind arising from or connected with this *Factory Mutual Gro 	V Ational Board of Boil Mass. and em altham, Mass. the total 197 rer has constructed the tion III. ver makes any warrand ata Report.Furthermo hay personal injury or inspection. UP of Insurance <u>C. Mass. 109</u>	er and ployed by have 2 and his equip- by, ez- re. neither property e Co.
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		L. the undersigned, hold Pressure Vessel Inspecto Mutual Boiler & Ma inspected the equipment d state that to the best of m ment in accordance with th By signing this certifica pressed or implied, concer the Inspector nor his empli damage or a loss of any ki Date C: toires 31 Amachi f. C	Manufacturer 331 expires Novembe CERTIFICATE OF SHOP INSPECTION ding a valid commission issued by the N ors and the State or Province of Achinery Insurance Co.*, We described in this Data Report on Cortec my knowledge and belief, the Manufactur the applicable Subsections of ASME Sec ate. neither the Inspector nor his employ erning the equipment described in this D loyer shall be liable in any manner for a wind arising from or connected with this *Factory Mutual Gro 	V Ational Board of Boil Mass. and em altham, Mass. the total 197 rer has constructed the tion III. ver makes any warrand ata Report.Furthermo hay personal injury or inspection. UP of Insurance <u>C. Mass. 109</u>	er and ployed by have 2 and his equip- by, ez- re. neither property e Co.

PLAN No 2-1497



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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
MS-RV-5C MS-RV-5C	Crosby Crosby	N63790-00-0060 N63790-00-0135 (N56000-01-0099)	N/A N/A	NA NA	1980 1973	Replaced Replacement	Yes, Code Class 1 Yes, Code Class 1

7. Description Of Work Performed: Replaced existing relief valve MS-RV-5C. The replacement work was performed as follows: 1) Removed existing relief valve Serial No N63790-00-0060 with set pressure of 1205 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.

Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.
 Installed replacement relief valve with Serial No N63790-00-0135 with set pressure of 1205 Psig at rated temperature of 575^o F.

Beinstalled VT-3 visually examined existing nuts for the relief valve inlet joint.

6) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

NOTES -

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0135 was installed is Main Steam (MS) piping system B22-G001C-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The replacement relief valve Serial No N63790-00-0135 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements. Relief valve Serial No N56000-01-0099 (Pre - Modification Serial No) was previously modified by Crosby to Serial No N63790-00-0135.

4) The replacement relief valve Serial No N63790-00-0135 was previously refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The refurbishment work was performed in accordance with NWS Technologies, LLC VR and NR programs and is documented in ASME Section XI Plan No 2-1538.



			CTON FUELC FOREL		PLAN No
	FORM NIS-2 OWNE	R'S REPORT F	OR REPAIRS O	R REPLACEME	NTS (Back)
	cted: Hydrostatic Test Pressure: 1 Component Des	Pneumatic	Nominal Of Te	perating Pressur st Temperature: mperature: 575° F	e Other •
And Replacement N63790-00-0139, 3 pressure and the te	See attached NVR-1 Code To Nuclear Components A)) See attached NV-1 (Pre st temperature on the relic PM No OSP-RPV-R801 *R	 Data Report for repland nd Systems In Nuclea Modification) Code for valve inlet joint was 	acement relief valve ar Power Plants" Ce Data Report for relie recorded during AS	Serial No N63790-00 rtification Report (QC f valve Serial No N56	-0139, 2) See attached "F 292A) for relief valve Ser 000-01-0099, 4) * The tes
, , , , , , , , , , , , , , , , , , ,					*
	•	•			
		CERTIFICAT	E OF COMPLIA	NCE .	
We certify t	hat the statements n	nade in this Owr	ier's Report are	correct and this	replacement conform
to the rules	of the ASME Code,	Section XI.			
	Symbol Stamp: Not A		•		
	Of Authorization No.	Not Applicable			· • •
	Date: Not Applicable				~ · · · ·
Prepared B	y Kuldip Singh - Prograi	m Lead Engineer (PL	Signed By		ram Load Engineer (PLE
Date	66	£8	Date	66	198 .
				(The second sec	
					······································
	CE	ERTIFICATE OF	INSERVICE IN	SPECTION	
Vessel Insp of Waltham, period //// Owner has in accordar By signing implied, con Furthermor	signed, holding a va ectors and the State Massachusetts have (/////	of Washington au Inspected the co Mons and taken of Inents of the ASM er the Inspector Nations and corrector Nations and corrector	nd employed by mponents desc and state to the corrective meas AE Code, Sectio nor his employ ective measures oyer shall be lia	Arkwright Mutual I ribed in this Owr best of my know ures described in n XI. er makes any wa described in this able in any mann	Insurance Company ner's Report during vledge and bellef, th n this Owner's Repo rranty, expressed o s Owner's Report. er for any personal
F. Ille	Till		Commissions	<i>1486w/74</i>	(PG NISEIS
X parte	Inspector's Signature				tate, and Endorsements
Date <u>4/1</u>	ully .			`	,
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FORM NVR-1 REPORT OF REPAIR A REPLACEMENT A OF NUCLEAR PRESSURE RELIEF DEVICES PLAN NO. 2-1491

1. Work performed by: NWS Technologies, LLC			
	Purchase Orde		
131 Venture Boulevard, Spartanburg, S	SC 29301	. <i>لإك</i> ت	dail Surs
2. Work performed for: Washington Public Power Supply System			614198
3/4. Owner - name, address and identification of nuclear power p WNP-2, North Power Plant Loop, Richland, WA 99352-0968	blant: Washingto	on Public Power S	Supply System
5. a: Repaired pressure relief device: Main Steam Safety Reli	ef Valve	۶	
b: Name of manufacturer. Crosby Valve & Gage Co.			
c: Identifying nos. HB-65-BP-FN N63790-00-0135	N/A steam	n <u>6x10</u>	1976
(type) (mfr's S/N)	(NB#) . (service	e) (size)	· (yr.built
d: Construction Code: ASME Sec. III Div. 1 1971 ·	N/A	N/A	11
(name/section/division) (edition)	(addenda) ((Code Cases(s))	(Code Class)
6. ASME Code Section XI applicable for inservice inspection:	1989	<u>N/A</u>	N/A .
	(edition)	(addenda)	(Code Case(s))
7. ASME Code Section XI used for repairs, replacements:	1989	<u>N/A</u>	<u>N/A</u>
	(edition)	(addenda)	(Code Case(s))
8. Construction Code used for repairs, replacements:	1971	<u>N/A</u>	<u>N/A</u>
•	(edition)	(addenda)	(Code Case(s))
9. Design responsibilities: N/A			
11. Description of work (include name and identifying number of replacement	ant namely 11/SASSE		
cleaned, inspected, assembled. Certified set-pressure and se 12. Remarks Replacements: gaskets, locking washers, disc hold	at tightness on s	team.	
cleaned, inspected, assembled. Certified set-pressure and se 12. Remarks Replacements: gaskets, locking washers, disc hold set screw (0135).	eat tightness on s er pin, inlet studs	team.	
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CROSBY VALVE & GAGE COMPANY	
CROSBY, WRENTHAM. MA O.C292, REV.	
PLAN NO. 2-1497 SHEET 1 OF 2.	
	1
Ruldip Swips	
REPAIR AND REPLACEMENT 614198	
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS	
1. Work performed 'by Crosby Valve & Gage Company 43 Kendrick St. Wrentham. MA 02093	
(Name and Address) (Repair organization's P.O. No., Job No., etc.). NV4000020	
2. OwnerWASHINGTON PUBLIC POWER_RICHLAND.WA 99352-0968(Name and Address)	
	ШШ
3. Name and Identification of Nuclear Power Plant HANFORD #2	
4. Address of Nuclear Power Plant <u>RICHLAND</u> , WA	
5. a. Identifying Nos. <u>N63790-00-0135</u>	RUI
(Mfr's Serial No.) (Nat'l Bd. No.) (Jurisdiction No.) (Other) (Year Built) b. Identification of component repaired or replacement component	
c. Name of ManufacturerCROSBY VALVE'& GAGE COMPANY	
6. Tests conducted: Hydrostatic (X) Pneumatic () Design Pressure () Pressure <u>2370.0</u> psi	
7. Identification of SystemMAIN STEAM	
8. Applicable Section(s) III of ASME Code, 19_71 Edition	
free logar the same	
Addenda <u>NO</u> Code Case	
9. Description of work N56000-01-0099 WAS MODIFIED TO N63790-00-0135	
(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified) ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.	
	nunn
10.Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:	
10.Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES: PART PART NO. MODIFIED TO PART NO. BODY N90118 N93183-46-0129	
10.Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES: PART PART NO. MODIFIED TO PART NO. BODY N90118 N93183-46-0129 BONNET N89717	
10.Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES: PART PART NO. MODIFIED TO PART NO. BODY N93183-46-0129 BONNET N93407-42-0053 SPINDLE ASSY S5465 SPR-WASHER N89724 K62856-42-0201	
10.Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES: PART PART NO. MODIFIED TO PART NO. BODY N90118 N93183-46-0129 BONNET N89717 N93407-42-0053 SPINDLE ASSY K55465 K62873-45-0059 SPR.WASHER N89724 K62856-42-0201 SPR.WASHER N89723 K62857-42-0201	
PART PART NO. REPLACED WITH NOZZLE N89713 N93184-51-0155	
PART PART NO. REPLACED WITH NOZZLE N89713 N93184-51-0155 DISC INSERT N89715 N93185-52-0199	
PART PART NO. REPLACED WITH NOZZLE N89713 N93184-51-0155 DISC INSERT N89715 N93185-52-0199 SPRING NX2689 N89722-0072 THR.BRG.ADAPT.N89725 N93409-32-0006	
PART PART NO. REPLACED WITH NOZZLE N89713 N93184-51-0155 DISC INSERT N89715 N93185-52-0199 SPRING NX2689 N89722-0072 THR.BRG.ADAPT.N89725 N93409-32-0006 ADJ.BOLT N89726 N93410-32-0005	
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Q.C.-292, REV. A Certificate Holder's Serial No.___N63790.00.0135 SHEET 2 OF 2 CERTIFICATE OF COMPLIANCE . We certify that the statements made in this report are correct and all design, material, and workmanship on this _ conforms to the applicable section of the ASME Code. MOD. (repair/replacement) 1924 Signed (Authorized Rep. of Repair Organization (Title) (Date) د مده (منه ، درد و مردو مدر مده و و ساله و در مده و در و مر ... Listerer **CERTIFICATE OF INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by _ Factory Mutual have inspected the repair or replacement described in this report on of <u>Norwood</u>, Massachusetts Feb. 25-, 19.94 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this report. Furthermore, neither the Inspector nor his employe shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. **Factory Mutual Systems** Date Kt6 1455 Commissions_ Signed (Inspector) (Nat'l. Bd., State, Prov. and No.)

PLAN NO. 2-1497 Kurdip Burl 614198 ...

	<u>WPPSS S/N</u>	WPPSS Set	<u>Bailly S/N</u>	<u>Bailly Set</u>	6]4[48
•	N63790-00-0134	1175	N56000-01-0037	1175	
	N63790-00-0135	1205	N56000-01-0099	21130 21	
	N63790-00-0136	1205	N56000-02-0043 .	1205	4-
	N63790-00-0137	1195	N56000-02-0042	1195	-4
	N63790-00-0138	1185	N56000-01-0038	1175	, ,, ,
	N63790-00-0139	1165	N56000-01-0100	1130	

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CROSBY			GE COMPANY
	NV-1 FOR SAFETY AND SA equired by the Provisions of		··· Q.C44C
	DATA REPOR Safety and Safety Rel		
Manufactured By Crosby Val HB-65-BP- Model No. FN Order No Seneral El Manufactured For San Jose,	Name and Addre N-51726 Lectric Co., 175 Cu California 95125	Date <u>1/27/75</u> Nat Ther Ave.,	ional Board No
Owner Northern Indiana Pu	Name and Address iblic Service Co	: Bailly Generating	Station Nuclear I
	Namerand Address	· ·	
Location of PlantBaileytown Spare	, Indiana	•	·
Valve identification MPL#B22-FO	13Serial No. N56000-	-01-0099 Drawing No.	H-56000 Rev. C
Type Safety Rel	ief Onlice S	R Bine Size	jules_6Outles_10
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,	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring		ASTM A304-66
d. Bolting e. Other Parts such as Pilot Com		
Inlet Stud	N89727-1203 thru 1214	ASME SA193 Gr. B7
Inlet Nut	N89728-1197 thru 1208	
Bonnet Stud	N89718-1222 thru 1233	
Bonnet Nut	N89719-1216 thru 1227	• •
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÷	de in this report are correct. Signed Crosby Valve & Gage Co. Manufacturer	By Ch Aleman QA Managér
Date 6-22 1976	Signed Crosby Valve & Gage Co. Manufacturer	QA Manager
We certify that the statements mad Date <u>6-22</u> 19 <u>76</u> Certificate of Authorization No	Signed Crosby Valve & Gage Co. Manufacturer	QA Manager
Date 6-22 1976	Signed Crosby Valve & Gage Co. Manufacturer	QA Manager
Date 6-22 1976	Signed Crosby Valve & Gage Co. Manufacturer 926 expires October 2	QA Manager 8, 1977
Date6-221976 Certificate of Authorization No	Signed Crosby Valve & Gage Co. Manufacturer 926 expires October 2	QA Manager
Date <u>6-22</u> 1976 Certificate of Authorization No I. the undersigned, h Pressure Vessel Inspe Factory Mutual	Signed Crosby Valve & Gage Co. Manufacturer 926 expires October 2 CERTIFICATE OF SHOP INSPECTION solding a valid commission issued by the ya ectors and the State or Province of Mass.	QA Manager
Date <u>6-22</u> 1976 Certificate of Authorization No I. the undersigned, h Pressure Vessel Inspe <u>Factory Mutual</u> inspected the equipme state that to the best of	Signed Crosby Valve & Gage Co. Manufacturer 926 expires October 2 CERTIFICATE OF SHOP INSPECTION solding a valid commission issued by the system ectors and the State or Province of	QA Manager 18, 1977 18, 1977 19 19 19 19 19 19 19 19 19 19
Date <u>6-22</u> 1976 Certificate of Authorization No I. the undersigned, h Pressure Vessel Inspe <u>Factory Mutual</u> inspected the equipme state that to the best of ment in accordance wi By signing this certif pressed or implied, con the Inspector nor his e	Signed Crosby Valve & Gage Co. Manufacturer 926 expires October 2 CERTIFICATE OF SHOP INSPECTION solding a valid commission issued by the Market Systems*, Norwood, Mass. Int described in this Data Report on of my knowledge and belief, the Manufacture	QA Manager 8, 1977 8, 1977 8, 1977 8, 1977 8, 1977 8, 1977 19 19 19 19 19 19 19 19 19 19



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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
MS-RV-1D MS-RV-1D ,	Crosby Crosby	N63790-00-0049 N63790-00-0050	N/A N/A	N/A N/A	1980 1980	Replaced Replacement	Yes, Code Class 1 Yes, Code Class 1
a.				1			

7. Description Of Work Performed: Replaced existing relief valve MS-RV-1D. The replacement work was performed as follows: 1) Removed existing relief valve Serial No N63790-00-0049 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) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.

4) Performed VT-1 visual examination on three (3) studs for the relief valve inlet joint. VT-1 visual examination results acceptable.

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 nuts for the relief valve inlet joint.

7) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.

8) Installed VT-1 visually examined new studs for the relief valve inlet joint.

Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

NOTES -

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0050 was installed is Main Steam (MS) piping system B22-G001D-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The replacement relief valve Serial No N63790-00-0050 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements.

4) The replacement relief valve Serial No N63790-00-0050 was previously refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The refurbishment work was performed in accordance with NWS Technologies, LLC VR and NR programs and is documented in ASME Section XI Plan No 2-1532.

Date: 06/05/98 Sheet: 1 of 1 Unit: WNP-2

,	SUPPLY SYSTEM
FO	RM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
Tests Conducte	d: Hydrostatic Pneumatic Nominal Operating Pressure Other •
	Test Pressure: 1024 Psig Test Temperature: 240° F Component Design Pressure: 1250 Psig Temperature: 575° F
de Data Report for r	attached NVR-1 Code Data Report for replacement relief valve Serial No N63790-00-0050, 2) See attached N placement relief valve Serial No N63790-00-0050, 3) * The test pressure and the test temperature on the relief during ASME Section XI pressure test which was performed in accordance with PPM No OSP-RPV-R801 *Re ge Test*.
	CERTIFICATE OF COMPLIANCE
to the rules of Type Code Syn Certificate Of J Expiration Dat	the statements made in this Owner's Report are correct and this replacement conforms the ASME Code, Section XI. nbol Stamp: Not Applicable Authorization No.: Not Applicable by Not Applicable Signed By Hurai Surph Kuldip Singh - Program Lead Engineer (PLE) Col 6 19 8 Date 6 6 9 8
	•
· .	CERTIFICATE OF INSERVICE INSPECTION
Vessel Inspect of Waltham, Ma period <u>7777</u> Owner has per in accordance By signing this implied, conce Furthermore, I	ned, holding a valid commission issued by the National Board of Boller and Pressure ors and the State of Washington and employed by Arkwright Mutual Insurance Company seachusetts have inspected the components described in this Owner's Report during to \overline{S} to \underline{U} and state to the best of my knowledge and belief, the formed examinations and taken corrective measures described in this Owner's Report with the requirements of the ASME Code, Section XI.
Vessel Inspect of Waltham, Ma period <u>3</u> Owner has per in accordance By signing this implied, conce Furthermore, I	ned, holding a valid commission issued by the National Board of Boller and Pressure ors and the State of Washington and employed by Arkwright Mutual Insurance Company seachusetts have inspected the components described in this Owner's Report during t <u>Seachusetts have inspected the components described in this Owner's Report during t</u> and state to the best of my knowledge and belief, the formed examinations and taken corrective measures described in this Owner's Report with the requirements of the ASME Code, Section XI. certificate neither the Inspector nor his employer makes any warranty, expressed or rining the examinations and corrective measures described in this Owner's Report. weither the Inspector nor his employer shall be liable in any manner for any personal rty damage or a loss of any kind arising from or connected with this inspection.
Vessel Inspect of Wattham, Ma period ///// Owner has per in accordance By signing this implied, conce Furthermore, r injury or prope	ned, holding a valid commission issued by the National Board of Boller and Pressure ors and the State of Washington and employed by Arkwright Mutual Insurance Company seachusetts have inspected the components described in this Owner's Report during the seachusetts have inspected the components described in this Owner's Report during the seachusetts have inspected the components described in this Owner's Report during the seachusetts have inspected the components described in this Owner's Report formed examinations and taken corrective measures described in this Owner's Report with the requirements of the ASME Code, Section XI. secrificate neither the Inspector nor his employer makes any warranty, expressed or rining the examinations and corrective measures described in this Owner's Report. we there the Inspector nor his employer shall be liable in any manner for any personal rty damage or a loss of any kind arising from or connected with this inspection.
Vessel Inspect of Wattham, Ma period ///// Owner has per in accordance By signing this implied, conce Furthermore, r injury or prope	ned, holding a valid commission issued by the National Board of Boller and Pressure ors and the State of Washington and employed by Arkwright Mutual Insurance Company seachusetts have inspected the components described in this Owner's Report during to <u>1</u> to <u>1</u> to <u>1</u> and state to the best of my knowledge and belief, the formed examinations and taken corrective measures described in this Owner's Report with the requirements of the ASME Code, Section XI. a certificate neither the inspector nor his employer makes any warranty, expressed or rning the examinations and corrective measures described in this Owner's Report. The the inspector nor his employer shall be liable in any manner for any personal rty damage or a loss of any kind arising from or connected with this inspection.

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1. Work performed					Purchase O	rder #C3	1331	*
		31 Venture Bould				1. A	Rusa	up Sur
2. Work performed								6 4(9
3/4 Owner - name WNP-2, North	e, addre Power	ess and identificat Plant Loop, Rich	tion of nuclear land, WA 993	r power p 52-0968	lant: Washir	igton Public P	ower S	upply Syster
5. a: Repaired pre			lain Steam Sa	fety Relie	ef Valve			
b: Name of mar	nufactu	rer: Crosby Valv						
c: Identifying no		(type)	N63790-00-00			and the second s	5 x 10	
d: Construction	Code:	ASME Sec. III ((mit's S/N) Div. 1	1971	(NB#) (sei N/A	vice) N/A	(SiZQ)	()7.bui 1
		(name/section/divis		edition)	(addenda)	(Code Cases	s))	(Code Class)
6. ASME Code Sec	tion XI	applicable for ins	ervice inspec	tion:	1989	N/A		N/A
			•		(edition)	(addenda	, ,	(Code Case(s))
7. ASME Code Sec	tion XI	used for repairs,	replacements	:	1989	<u>N/A</u>		• N/A
8. Construction Cod	te used	for repairs repla	cemoste:	٩	(edition) 1971	(addenda) N/A) _ ((Code Case(3)) N/A
		in opena, ichie			(edition)	(addenda	, - ((Code Case(s))
9. Design responsib	pilities:	N/A	•		\ ,	w	ŕ	
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JU. Unening pressi								
10. Opening pressu Set-pressure ad		and the second	NWS Techon	logies II	C us	ing steam		4 e
Set-pressure ad	justmei	nt made at:	NWS Techno			ing <u>steam</u>	. .	· ·
Set-pressure ad	justmei rork (inc	nt made at: Jude name and identi	fying number of r	replacemen	toans): Disas	sembled, lap	- Ded sea	its.
Set-pressure ad	justmei rork (inc	nt made at:	fying number of r	replacemen	toans): Disas	sembled, lap	bed sea	its.
Set-pressure ad 11. Description of w cleaned, inspect	justmen rork (inc led. ass	nt made at: tude name and identi embled. Certified	fying number of r I set-pressure	eplacement and seal	t pans): Disas	sembled, lapi steam.	ь.,	,
Set-pressure ad 11. Description of w cleaned, inspect 12. Remarks Replace	justmei rork (inc led. ass cement	nt made at: tude name and identi embled. Certified s: gaskets, lockin	fying number of r I set-pressure Ig washers, di	eplacement and seal	t pans): Disas	sembled, lapi steam.	ь.,	,
Set-pressure ad 11. Description of w cleaned, inspect 12. Remarks Replace	justmei rork (inc led. ass cement	nt made at: tude name and identi- embled. Certified s: gaskets. lockin QH.K4K), disc ho	fying number of r I set-pressure ig washers, di ilder pin,	e and seat	t parts): Disas t tightness on (N93185-56-	sembled, lapi steam.	ь.,	,
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Set-pressure ad, 11. Description of w cleaned, inspect 12. Remarks Replace inlet st I. Cesar V. Si	justmen rork (inc led. ass cement tuds (G ierra	nt made at: tude name and identi embled. Certified s: gaskets. lockin QH.K4K), disc ho CER certify that the	fying number of r I set-pressure Ig washers, di older pin. TIFICATE OF Istatements n	and sea sc insert COMPL	t parts): Disas t tightness on (N93185-56-4 JANCE	sembled, lapp steam, 0253), nozzle correct and th	(N9318	, 34-52-0159), ir or
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CROSBY	•	HAH, MASS PLAN NO. 2-1498
FORM NV-1 As Required by	FOR SAFETY AND SAFETY RELIEF y the Provisions of the ASME (DATA REPORT	VILVES A. OL Q.C44
	Ecty and Safety Relief Valves	ION Resonances com
1. Manufactured By Crosby Valve	Name and Address	_ _
General Ele 2. Manufactured For <u>San_Jose</u>	ectric Company, 175 Curtr	<u>4/24/79 National Board No. N/A</u> ner Ave., Order No. <u>205-AJ986</u>
3. Owner Washington Public Pa	ower Supply System, Richl Name and Address	land, Washington 99352
4. Location of Plant Hanford Re-	• • •	ington 99352
5. Valve Identification MPL #B22-	-F013 serial No. <u>N63790-00-(</u>	050 Drawing No. <u>DS-A-63790 Rev.</u>
Type <u>Safety Relief</u> Safety, Safety Relief, Pi Power Actuated		Pipe Size Inlet 6 Outlet 10 Inch Inch Inch Inch
6. Set Pressure (psig) 1175	5	<u>575</u> ° F
	0.0.0.0	Rated Temperature
 Stamped Capacity <u>884,314</u> Hydrostatic Test (psig) Inlet_ 	<u> </u>	Blowdown (psig) <u>2% to 11%</u> 75 psig (Assembled Valve) 00 psig (Body Only)
Pressure Retaining Pieces		to Valves for Closed Systems Only
Bar Stock & Forgings	Serial No. Identification	Naterial Specification Including Type or Grade
a. Gaocingx Body	<u>N93183-35-0069</u>	ASTM A105-71 Gr. II ASME SAI05 Gr. II
Bonnet	N93407-35-0032	ASTM A105-71 Gr. II ASME SA105 Gr. II
b. Hartitanhatxianluzzx	· ·	
Spannershodz Disc Insert	<u>N93185-34-0082</u>	ASME SA637 Gr. 718
Nozzle	<u>N93184-33-0054</u>	ASME SA182 Gr. F316
Disc Holder*K55484-35-0097	*N89714-34-0101	AMS 5662B
Spring Washers K62858-35-0032	K62856-35-0088 K62857-35-0053	ASTM A105-71 Gr. II ASME SA105 Gr. II
Adjusting Bolt	<u>N93410-33-0057</u>	ASME SA193 Gr. B6
Spindle Point K62873-35-0050	*\189720-34-0066	ASTM AS64-71 Type 630 ASME SA564 Type 630
c. Spring K62858-35-0032	*\89722-0008	ASTM A304-66 Gr. 4161H
		·ZX00380110
d. Bolting		
d. Bolting Spindle Ball e. Schrywigerry K62873-35-0050		Stellite #6
e. Sharakarr K62873-35-0050 .	<u>N93213-0050</u> N93409-32-0052	Stellite ∉6 ASME SA193 Gr. B6
c. Attack K62873-35-0050 . 		Stellite ∉6 ASME SA193 Gr. B6
c. AtaxxXdaxxx K62873-35-0050 . 	N93409-32-0052 7) N93207-0597 thru 0608	Stellite #6 ASME SA193 Gr. B6 ASTM A193-71 Gr. B7 ASME SA193 Gr. B7 ASME SA194 Gr. 2H
e. Attract K62873-35-0050 . <u>Thrust Bearing Adapter</u> <u>Bonnet Stud</u> (BW5, II)	N93409-32-0052 7) N93207-0597 thru 0608 7) N93210-0817 thru 0828	Stellite #6 ASME SA193 Gr. B6 ASTM A193-71 Gr. ASME SA193 Gr. B7

_	ginal nameplate removed and new nameplate attached. N103790-00-00.50
•	CERTIFICATE OF COMPLIANCE
to III Cla	certify that the statements made in this report are correct and that this value conformation of the ASNE Code for Nuclear Power Plant Components, Section, Div. 1, <u>1971</u> Edition, Addenda <u>No Addenda</u> , Code Case No. <u>1567 & 1711</u> ss1 (Date)
Dat	e 11-5-80 Signed Crosby Valve & Gage Co. by 1.4. Cadavante (N Certificate Holder)
Our	ASME Certificate of Authorization No. 1878 to use the NV
	bol expires September 30, 1983 . (Date)
<u> </u>	
	CERTIFICATION OF DESIGN
_	
	ign information on file at <u>Crosby Valve & Gage Company</u>
	ess analysis report (Class 1 only) on file at <u>Crosby Valve & Gage Company</u>
	Kendrick Street, Wrentham, Massachusetts 02093
	ign specifications certified by Bovd P. Brooks
	State California Reg. No. 13655
	ess report certified by W. D. Greenlaw
PE S	State Massachusetts Reg. No. 14784
1 _{Sig}	gnature not required - list name only.
	· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF SHOP INSPECTION
Pres and have and cons	the undersigned, holding a valid commission issued by the National Board of Boiler and soure Vessel Inspectors and the State or Province of <u>Massachusetts</u> employed by <u>Factory Mutual Systems</u> <u>of Norwood, Massachusetts</u> inspected the pump, or valve, described in this Data Report on <u>12/5</u> , 19 <u>36</u> state that to the best of my knowledge and belief, the N Certificate Holder has tructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant ionents.
expr	igning this certificate, neither the Inspector nor his employer makes any warrant, essed or implied, concerning the equipment described in this Data Report. Further- , neither the Inspector nor his employer shall be liable in any manner for any onal injury or property damage or a loss of any kind arising from or bornacted with inspection.
pers	$\frac{12/5}{1980}$
pers this Date Sign	ed Au MAREL Commissions MASS 1266

PLAN No 2-1499



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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
MS-RV-3D	Crosby	N63790-00-0126	N/A	N/A	1981	Replaced	Yes, Code Class 1
MS-RV-3D	Crosby	N63790-00-0057	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced existing relief valve MS-RV-3D. The replacement work was performed as follows: 1) Removed existing relief valve Serial No N63790-00-00126 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) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.
- 4) Performed VT-1 visual examination on six (6) new nuts for the relief valve inlet joint. VT-1 visual examination results acceptable.
- 5) Installed replacement relief valve with Serial No N63790-00-0057 with set pressure of 1195 Psig at rated temperature of 575° F.
- 6) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint.
- 7) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.
- 8) Installed VT-1 visually examined new nuts for the relief valve inlet joint.

9) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

NOTES-

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0057 was installed is Main Steam (MS) piping system B22-G001D-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The replacement relief valve Serial No N63790-00-0057 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements.

4) The replacement relief valve Serial No N63790-00-0057 was previously refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The refurbishment work was performed in accordance with NWS Technologies, LLC VR and NR programs and is documented in ASME Section XI Plan No 2-1534.

Date: 06/05/98 Sheet: 1 of 1 Unit: WNP-2

	•	•		PLAN No 2
	SU	PPLY SYSTEM		Ĩ
FORM NIS-2	2 OWNER'S REPORT	FOR REPAIRS OF	REPLACEMENT	S (Back)
	static Pneumatic essure: 1024 Psig nent Design Pressure: 1	Tes	erating Pressure Temperature: 240 perature: 575 ⁰ F	Contraction of the other other of the other other of the other other of the other ot
9. Remarks: 1) See attached N Code Data Report for replacement inlet joint was recorded during ASM Pressure Vessel Leakage Test.	relief valve Serial No N63790	-00-0057, 3) * The test p	ressure and the test ter	nperature on the relie
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	CERTIFICA	TE OF COMPLIAI	ICE	
to the rules of the ASM Type Code Symbol Star Certificate Of Authoriza Expiration Date: Not Appli Prepared By Kuldip Sing Date	np: Not Applicable tion No.: Not Applicable cable	Signed By LE) Date	Kuldip Singh - Program 6 6 6	Euro Load Engineer (PLE)
	CERTIFICATE O	F INSERVICE INS	PECTION	
I, the undersigned, hold Vessel inspectors and to of Waltham, Massachusett period	ling a valid commission he State of Washington a s have inspected the c to <u>c</u> to <u>c</u> xaminations and taken requirements of the AS te neither the inspector examinations and corri e inspector nor his emp	n issued by the Nat and employed by A omponents descrit and state to the b corrective measur ME Code, Section r nor his employer rective measures c ployer shall be liab	ional Board of Bo www.ight Mutual Insu- bed in this Owner est of my knowled res described in th XI. makes any warrau lescribed in this O le in any manner f	urance Company is Report during lge and belief, th lis Owner's Repo nty, expressed o wner's Report. for any personal
Inspector's Sig	inature .	_ Commissions <u>/</u>	HIJJ THST National Board, State,	NJSS JS
Date <u> ///////////////////////////////////</u>				,
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2. Work perform		Vashington Put			n - WNP-2			614198
		ess and identific Plant Loop, Ri			lant: Washir	ngton P	Public Power	Supply Syst
	manufactu	rer: Crosby V		0.	٠			
c: Identifying	g nos. <u>H</u>	B-65-BP-FN (type)	N63790-00-0 (mfr's S/N)			eam	<u>6 x 10</u> (size)). <u>19</u> (yr.t
d: Construct	tion Code:		Il Div. 1	1971 (edition)	N/A (addenda)		N/A Cases(s))	1 (Code Clas
6. ASME Code	Section XI	applicable for	inservice inspe	ction:	1989		N/A [°]	N/A
7. ASME Code			·		(edition) 1989	- ī	(addenda) * N/A	(Code Case N/A
8. Construction	Code used	d for repairs, re	placements:		(edition) 1971		addenda) N/A	(Code Case , N/A
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•	FORM As Requir	NV-1 FOR SAFETY AND SAFETY ed by the Provisions of the DATA REPORT	RELIEF VALVES ASHE Code Rules Durling Sur 5 6/4198
		Safety and Safety Relief	Valves
1. Heni	ufactured By Crosby V	alve & Gage Company, 43 Ken Name and Address	drick St., Wrentham, MA 02093
Hode	1 NoHB-65-BP-FN 0	rder No. N94275 Contract	Date 4/24/79 National Board No. N
	General Stactured For San Jose	Electric Company, 175 (Curtner Avenue., : . Order No. 205-AJ986
		Name and Address	•
3. Owne	r Washington Publi	Lc Power Supply System, Name and Address	Richland, Washington 99352
4. Loca	tion of Plant Hanford	Reservation, Richland,	Washington 99352
			к
			-00-0057 Drawing No. DS-A-63790
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	Power Actuated		Inchese prelaching prinche maintai
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a. Graty Body Bonne	Stock & Forgings	Identification	Material Specification Including Type or Grade ASTM A105-71 Gr. II ASME SA105 Gr. II
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a. Child Body Bonne b. Earch Kozzl Nozzl Disc J Spring Adjust Spind: c. Spring d. Boltin Spind: c. Child	Stock & Forgings t TANKXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Identification N93183-35-0076 N93407-35-0039 N93185-34-0089 N93185-34-0089 N93184-33-0061 N93184-33-0061 N93184-33-0061 N93184-33-0061 N93184-33-0060 N93410-33-0060 N93410-33-0064 N93410-33-0064 N93410-33-0057 N93213-0057 N93213-0057 N93409-32-0059	Material Specification Including Type or Grade ASTM A105-71 Gr. II ASME SA105 Gr. II ASME SA105 Gr. II ASME SA105 Gr. II ASME SA637 Gr. 718 ASME SA637 Gr. 718 ASME SA122 Gr. F316 AMS 5662B ASTM A105-71 Gr. II ASME SA105 Gr. II ASME SA105 Gr. II ASME SA193 Gr. B6 ASTM A564-71 Type 630 ASME SA564 Type 630 ASME SA564 Type 630 ASTM A304-66 Gr. 4161 I ZX00380090 Stellite #6 ASME SA193 Gr. B6
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a. Children Body Bonne b. Earch Nozzl Nozzl Disc J Spring Adjust Spind: c. Spring d. Boltin Spind: <u>c. Spring</u> d. Boltin Spind: <u>Spind</u>	Stock & Forgings t TMAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Identification <u>N93183-35-0076</u> <u>N93407-35-0039</u> <u>N93185-34-0089</u> <u>N93185-34-0089</u> <u>N93184-33-0061</u> 083 <u>*N89714-34-0093</u> <u>K62856-25-0095</u> <u>K62857-35-0060</u> <u>N93410-33-0064</u> 057 <u>*N89720-34-0073</u> <u>*N89722-0015</u> <u>057 N93213-0057</u> <u>N93409-32-0059</u> <u>117) N93207-0681 thru</u>	Material Specification Including Type or Grade ASTM A105-71 Gr. II ASME SA105 Gr. II ASTM A105-71 Gr. II ASME SA105 Gr. II ASME SA122 Gr. F316 AMS 5662B ASTM A105-71 Gr. II ASME SA105 Gr. II ASME SA193 Gr. B6 ASTM A304-66 Gr. 4161 N III III ASTM A304-66 Gr. 4161 N IIII III ASTM A304-66 Gr. 4161 N IIII IIII ASTM A304-66 Gr. 4161 N IIII ASTM A304-66 Gr. B6 ASME SA193 Gr. B6 O692 ASTM A103-71 Gr. B7 O912 ASME SA194 Gr. 2H

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Serialization is required unless indicated by an asterisk. Original nameplate removed and new nameplate attached. Nuc 3790-00-00-00-00-00-00-00-00-00-00-00-00-0
CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that this value conform- 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 & 17 Class 1 (Date) Date 11-5-20 Signed Crosby Value & Gage Co. by C.G. Calacteric (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 <u>Crosby Valve & Gage Company</u>
43 Kendrick Street, Wrentham, Massachusetts 02093
Design specifications certified by Boyd P. Brooks
PE Stare California Reg. No. 13655
Stress report certified by ¹ W.D. Greenlaw ⁴
PE State Massachusetts Reg. No. 14784
¹ Signature not required - list name only.
. CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by Factory Mutual Systems* of <u>Norwood</u> , <u>Massachusetts</u> have inspected the pump, or valve, described in this Data Report on <u>12-9</u> , 19 <u>CC</u> 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. Further- more, 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 <u>1960</u> . Signed <u>Multiplicate</u> Commissions MASS 1266
Signed Of The MAD Commissions MAD 266. (Inspector) (Nat'1. Bd., State, Prov. and No.
*Arkwright-Boston Manufacturers Muzual Insurance Company - Muzual Boiler & Machinery D



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
 - (c) Type Code Symbol Stamp: Not Applicable
- (d) Certificate Of Authorization No.: Not Applicable
- (e) Expiration Date: Not Applicable
- 4. Identification Of System: Reactor Core Isolation Cooling (RCIC) System
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda, Code Case: None
 (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: 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(13)-4CL2	WPPSS .	RCIC(13 <u>)-</u> 4CL2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced existing level switch RCIC-LS-N010. The replacement work was performed as follows: 1) Removed existing valve level switch RCIC-LS-N010.

- 2) Installed new piping material such as pipe and pipe cap.
- 3) Installed new replacement level switch RCIC-LS-N010.
- 4) Made required socket welds.
- 5) Performed visual examination on the final socket welds. Visual examination results acceptable.
- 6) Performed liquid penetrant (PT) examination on the final socket welds. Liquid penetrant (PT) examination results acceptable.

Date: 10/23/97 Sheet: 1 of 1 Unit: WNP-2

	S S	SHINCTON PUBLIC PONE JPPLY SYSTEM	PLAN No 2-15 R I
FOR	NIS-2 OWNER'S REPORT	FOR REPAIRS C	OR REPLACEMENTS (Back)
7	Hydrostatic D Pneumatic Fest Pressure: Psig Component Design Pressure		perating Pressure Other X Notest Temperature: ° F emperature: ° F
Remarks: None	•	•	
		•	
· · · · · · · · · · · · · · · · · · ·		۶ ۰ ۰	
	CERTIFIC	ATE OF COMPLI	ANCE
to the rules of th Type Code Symb Certificate Of Au Expiration Date: Prepared By	e ASME Code, Section XI. ool Stamp: Not Applicable thorization No.: Not Applicable Not Applicable	Slaned Bv	Verland this replacement conforms
	Idip Singh - Program Lead Engineer ((PLE)	Kuldip Singh - Frogram Lead Engineer (PLE) くりしるイリン
Date		Date	(0)20 11
		1	
	CERTIFICATE O)F INSERVICE IN	SPECTION
I. the undersiane			ational Board of Boller and Pressure
	s and the State of	and empl	oyed by
described in this	Owner's Report during the p	eriod	have inspected the components to and
state to the best corrective measu ASME Code, Sec	of my knowledge and bellef, ires described in this Owner tion XI.	the Owner has pe s Report in accord	rformed examinations and taken dance with the requirements of the
Implied, concern Furthermore, nei	ing the examinations and co ther the inspector nor his em	rrective measures ployer shall be lia	er makes any warranty, expressed or described in this Owner's Report. able in any manner for any personal connected with this inspection.
<u>Not Required - Repla</u>	cement 1" NPS And Smaller	Commissions	•
Inspe	ctor's Signature	•	National Board, State, and Endorsements
Date			

• / .

•

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

WASHINGTON PUBLIC POWER

- As Required By The Provisions Of The ASME Code Section XI
- Owner: Washington Public Power Supply System (WPPSS)
 Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: Control Rod Drive (CRD) 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
CRD-V-101A/1411	Dragon	DL 10284	N/A	N/A	1977	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced vent and stem cover plugs for existing valve CRD-V-101A/1411. The replacement work was performed as follows:

1) Installed new replacement vent plug for existing valve CRD-V-101A/1411, Serial No DL 10284.

2) Installed new replacement stem cover plug for existing valve CRD-V-101A/1411, Senial No DL 10284.

Date: 04/02/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1506

	PLAN MASHINGTON FUBLIC FORER SUPPLY SYSTEM.	No 2-1506
FO	ORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
ests Conducte	ed: Hydrostatic Pneumatic Nominal Operating Pressure Other Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F	X None
emarks: Soo at	ttached N-2 Code Data Report for the new replacement vent and stem cover plugs, Heat No 73746.	
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	CERTIFICATE OF COMPLIANCE	
to the rules of Type Code Sy Certificate Of J Expiration Dat	t the statements made in this Owner's Report are correct and this replacement confo the ASME Code, Section XI. rmbol Stamp: Not Applicable Authorization No.: Not Applicable te: Not Applicable <u>Cucup</u> <u>Succ</u> <u>Signed By</u> <u>Vacap</u> <u>Buch</u> Kuldip Singh - Program Lead Engineer (PLE) <u>4298</u> Date <u>4298</u>	
	CERTIFICATE OF INSERVICE INSPECTION	
l, the undersig Vessel inspec	gned, holding a valid commission issued by the National Board of Boller and Pres stors and the State of and employed by have inspected the components	
corrective me ASME Code, S By signing thi Implied, conce Furthermore.	this Owner's Report during the period to to to and est of my knowledge and belief, the Owner has performed examinations and taken pasures described in this Owner's Report in accordance with the requirements of t	the ed or ort.
<u>Not Required - R</u> Ir	Replacement 1* NPS And Smaller Commissions	ents
	· ·	

•	•	As required by the Provision of the ASME Code Rules, Section III, Div. 1 $$
	<u></u>	PLAN NO: 2-1506
	- 1.	(a) Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650
	Ţ	(b) Manufactured for General Electric Company, I&SE, Richland, WA 99352
	2.	Identification-Certificate Holder's Serial No. of Part HT #73746Nat'l Bd. No
		(a) Constructed According to Drawing No. 7441 Drawing Prepared by . Dragon Valves, Inc.
	I	(b) Description of Part Inspected Plug for Vent and Drain Valves CRD-V-101A) 411
		(c) Applicable ASME Code: Section III, Edition 1971, Addenda date 12-31-74, Case NoCluss_2
÷	3.	Remarks: Plug is for replacement in 1" and 3/4" Vent and Drain Valves, Valve Nos. (Brief description of service for which component was designed)
÷.		10649-3 and 10649-5 for Control Rod Drive System. (50 pcs part number 24-7441-115)
٠		<u>CRD-V-102</u> <u>CRD-V-101</u>
		Quediji Qués 4/15/51
	(T) ica	We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code con- ms to the rules of construction of the A ^{ME} Code Section III. the applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certif- te Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not cluded in the component Design Specification and Stress Report.)
•	Da	November 10, 1978 Signed Dragon Valves, Inc. By
r.		ertificate of Authorization Expires May 6, 1981 Certificate of Authorization No. N-1034
	5	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
		Design information on file at General Electric Co.
۰ı		Stress analysis report on file at not applicable
		Design specifications certified by David J. Murphy Prof. Eng. State NA Reg. No. 12542
		Stress analysis report certified by not required Prof. Eng. State Reg. No
	Ē	CERTIFICATE OF SHOP INSPECTION
ej.		I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
ŧ		and/or the State or Province of <u>CALIFORNIA</u> and employed by <u>Division of Industrial Safery</u> of <u>California</u> have inspected the part of a pressure vessel described in this
• ₹		Partial Data Report on
		Date 11-10- 1978
		Supplemental cheets in form of lists, sketches or drawings may be used provided (1) size is 8%" x 13", (2) information in items 1-2 on this Data Arount is included on each there, and (3) each short is pumber of shorts is increded in time 3, "Armatha",
	17	0/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017
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lten					ack)			
	ma 4-8 Incl. to be co	mpleted for single				or shells of hea	t exchanger	
4.	Shell: Material (Kind b	T.S. Spec. No.) (Min. of	Nominal Thickness. Range Specified)		osion wancein. R)ia fti	n. Length_	/e
5.	Seams: Long						-	•
6.	Heads: (a) Material							
	Location (Top, bottom, ends) (a)) Thickness P		Ratio	Apes Angle	Hemispherical Rodius	Flat Diameter	(Conv. er Cón
	(b)	· · · · · · · · · · · · ·		•				
	ll removable, bolta u	used(Material	Spee. No., T.S., S	ize, Number)	Other faster	aing(Dee	tribe of allac	th sketch)
7.	Jacket Cleaner							· · ,
- •	(Dese	ribe as eges and we	d, ber, etc. If bergi	lve dimensions,	, if bolted, describ	e or sketch)	eight	• . •
		•	Tr;	•	×	Charny	Impact	{t
8.	Design pressure ²		psi	** **		OF at temp	. of	
ltem	ns 9 and 10 to be,com	pleted for tube se	ctions					
9.	Tube Sheets: Station	nary. Material	d & Spec. No.))is	Thick	ness in. At	tachnient	Welded, Bolied)
	• Flootie							
10.	Floarin Tubes: Material	" <u> </u>		hickness	inches	Number		
							• • / P`	(Str. or V)
ltem	11-14 incl. to be c	completed for inne	r chambers of ja	icketed vesse	els, or channels	of heat exchan	gers.	· · · · · ·
			Nominal	Corre	osion	······································	• •	
11.	Shell: Material (Kind & S	Spre, No.) (Min. of F		in. Allo	wancein. D	، ع، Iti	n. Length_	#• i
12.	~ .	•						2
	Seams: Long	Н.Т.	·	R.T.	f	Efficiency	<u> </u>	- % -
					E			
	Girch		·	R.T		io. of Courses _		·
13.			·	R.T		io. of Courses _		·
13.	Girch		T.S Grown Knuckle	R.T Elliptical	N (b) Material _ Conicol	io. of Courses _	T.S	
13.	Girth Heads (a) Material _ Location (a) Top, bottom, end	H.T.	T.S Grown Knuckle	Elliptical	(b) Material Conicol Apea Anglo	io, of Courses	T.S	
13.	Girth Heads (a) Material _ Location (a) Top, bottom, end (b) Channel	Thickness R	T.S Grown Knuckle	Elliptical	(b) Material Conicol Apra Anglo	No. of Courses Hemispherical Redius	T.S	
13.	Girth Heads (a) Material _ Location (a) Top, bottom, end	Thickness R	T.S Grown Knuckle	Elliptical	(b) Material Conicol Apra Anglo	No. of Courses Hemispherical Redius	T.S Flat / Dismeter 	Side-to Pres. (Conv. or Con
13.	Girth Heads (a) Material _ Location (a) Top, bottom, end (b) Channel	Thickness R SPEC. NO. SECTION	T.S Grown Knuckle	Elliptical	(b) Material Conicol Apra Anglo	No. of Courses Hemispherical Redius Cr Latening Drop Ve	T.S Flat / Dismeter Describe or s right	Side-to Pres (Conv. or Con
	Girth Heads (a) Material _ Location (a) Top, bottom, end (b) Channel	Thickness P SPEC. NO. SECTION PARA. NO.	T.S Grown Knuckle	R.T. Elliptical Ratio	(b) Material Conicol Apra Anglo	No. of Courses Hemispherical Redius Cr (Cr (Drop Ve Charpy	T.S Flat / Dismeter 	Side-to Pres (Conv. or Con
14.	Girth Heads (a) Material Location (a) Top, bottom, end (b) Channel If removable, bults u Design pressure ³	H.T. Thickness SPEC. NO. SECTION PARA. NO. QA ENGR.	T.S. rown Knuckle rotus Rodius rc. 2808-21 113 (b) 50 pai	R.T Elliptical ''Ratio 5 //// /// /// at	(b) Material Conicol Apra Anglo	No. of Courses Hemispherical Redius Cr (Cr (Drop Ve Charpy	T.S Flat · Diometer Describe or s right Impact	Side-to Pres (Conv. or Con
14.	Girth Heads (a) Material Lecetton (a) Top, bottom, end (b) Channel If tenovable, bults u	Thickness Thickness SPEC. NO. SECTION PARA. NO. QA ENGR. COMPENSION	T.S. rown Knuckle rotus Rodius rc. 2808-21 113 (b) 50 pai	R.T Elliptical Ratio) (b) Material Conicol Apea Anglo	No. of Courses Hemispherical Redius Cr (Cr (Drop Ve Charpy	T.S Flat · Diometer Describe or s right Impact	Side-to Pres (Conv. or Con
14. Item	Girth Heads (a) Material Lecetten (a) Top, bottom, end (b) Channel If removable, bults u Design pressure ³ ne belar to be comple	Thickness Thickness SPEC. NO. SECTION PARA. NO. QA ENGR. COMPENSION	T.S. rown Knuckle rotus Rodius rc. 2808-21 113 (b) 50 pai	R.T. Elliptical Ratio Social Control Social Control Social Control Social Control N/17 at ble. M. Spor	(b) Material Conicol Apea Anglo	No. of Courses Hemispherical Redius Cr (Cr (Drop Ve Charpy	T.S Flat · Diometer Describe or s right Impact	Side-to Pres (Conv. or Con
14. Item 15.	Girth Heads (a) Material Location (a) Top, bottom, end (b) Channel If teinovable, bults u Design pressure ³ no below to be comple Salety Valve Outlets	Thickness Thickness SPEC. NO. SECTION PARA. NO. QA ENGR. COMPENSION	T.S. rown Knuckle rotus Rodius rc. 2808-21 113 (b) 50 pai	R.T. Elliptical Ratio Social Control Social Control Social Control Social Control N/17 at ble. M. Spor) (b) Material Conicol Apea Anglo	No. of Courses Hemispherical Redius tr fastening Drop Ve Charpy oF at temp.	T.S Flat · Diometer Describe or s right Impact	Side-to Pres (Conv. or Con
14. Item 15.	Girth Heads (a) Material Lecetten (a) Top, bottom, end (b) Channel If removable, bults u Design pressure ³ ne belar to be comple	H.T. Thickness R SPEC. NO. SECTION PARA. NO. UA ENGR.	T.S. rown Knuckle rotus Rodius rc. 2808-21 113 (b) 50 pai	R.T Elliptical Ratio S = 0.0000 (Second Second Se	(b) Material Conicol Apra Anglo	Hemischerical Redius	T.S Flat · Diometer Describe or s right Impact	Side-to Pres (Conv. or Con
14. Item 15.	Girth Heads (a) Material Location (a) Top, bottom, end (b) Channel 11 teinovable, bults u Design pressure ³ no below to be comple Salety Valve Outlets Nuccles:	H.T. Thickness R SPEC. NO. SECTION PARA. NO. QA ENGR. CATE CATE PETACHIER	T.S. rown Knuckle rotus Rodius rc. 2808-21 113 (b) 50 pai	R.T Elliptical Ratio S = 0.0000 (Second Second Se	(b) Material Conicol Apea Anglo	No. of Courses Hemispherical Redius Er Instening Orop Ve Charpy at temp. Reind	T.S Flat / Diemeter Describe or s right Impact of	Siderta Pres. (Conv. or Con
14. Item 15.	Girth Heads (a) Material Location (a) Top, bottom, end (b) Channel If teinovable, bults u Design pressure ³ no below to be comple Salety Valve Outlets Nuccles: Purpose (inlot,	H.T. Thickness R SPEC. NO. SECTION PARA. NO. QA ENGR. CATE CATE PETACHIER	T.S. rown Knuckie rodius Redius	R.T Elliptical Ratio S = 0.0000 (Second Second Se	(b) Material Conicol Apra Anglo	No. of Courses Hemispherical Redius Er Instening Orop Ve Charpy at temp. Reind	T.S. Flat / Diometer Describe or e right Impact of Vereement	Siderta Pres. (Conv. or Con
14. Item 15.	Girth Heads (a) Material Location (a) Top, bottom, end (b) Channel If teinovable, bults u Design pressure ³ no below to be comple Salety Valve Outlets Nuccles: Purpose (inlot,	H.T. Thickness R SPEC. NO. SECTION PARA. NO. QA ENGR. CATE CATE PETACHIER	T.S. rown Knuckie rodius Redius	R.T Elliptical Ratio S = 0.0000 (Second Second Se	(b) Material Conicol Apra Anglo	No. of Courses Hemispherical Redius Er Instening Orop Ve Charpy at temp. Reind	T.S. Flat / Diometer Describe or e right Impact of Vereement	Side-to Pres (Conv. or Con
14. Item 15. 16.	Girth Heads (a) Material Lecetten (a) Top, bottom, end (b) Channel If tenovable, bults u Design pressure ³ me below to be comple Salety Valve Outlets Nuccles: Purpose (inlet, Outlet, Drain)	Thickness Thickness SPEC. NO. SECTION PÀRĂ. NO. QA ENGR. CATEL PARĂ. NO. QA ENGR. CATEL PARĂ. NO. CA ENGR. CATEL PARĂ. NO.	T.S. rown Knuckle rown Rediue rown Rediue 2808-21 4133 (b)	R.T		No. of Courses Homispherical Redius	T.S. Flat Diemeter Diemeter Doescribe or a right Impact of Impact of	Siderta Pres. (Conv. or Con
14. Item 15. 16.	Girth Heads (a) Material Lecetten (a) Top, bottom, end (b) Channel If tenovable, bults u Design pressure ³ me below to be comple Salety Valve Outlets Nuccles: Purpose (inlet, Outlet, Drain)	Thickness R Thickness R SPEC. NO SECTION - PÀRĂ. NO. QA ENGR. CA ENGR. CATE VATE VATE PL THENT I VESSER VATE PL THENT I VESSER VATE VAT	T.S. rown Knuckle rown Rediue rown Rediue rown 2808 21 4133 (b) 527 psi s when spplics Size	R.T		No. of Courses Hemispherical Redius Er Instening Orop Ve Charpy at temp. Reind	T.S. Flat Diemeter Diemeter Doescribe or a right Impact of Impact of	Siderta Pres. (Conv. or Con
14. Item 15. 16.	Girth Heads (a) Material Lecetten (a) Top, bottom, end (b) Channel If tenovable, bults u Design pressure ³ no belars to be comple Salety Valve Outlets Nuccles: Purpose (inlet, Outlet, Drain) Inspection Manhole Openingst Hendhol	H.T. Thickness SPEC. NO. SECTION PÀRÀ. NO. QA ENGR. CA ENGR.	T.S. rown Knuckle rotus Rediue rotus Rediue rotus Rediue rotus Rediue rotus Rediue rotus Rediue rotus Rediue rotus Rediue pai pai s when applica Size Size Size	R.T		No. of Courses Homispherical Redius	T.S. Flat Diemeter Diemeter Doescribe or a right Impact of Impact of	Siderta Pres. (Conv. or Con
14. Item 15. 16.	Girth Heads (a) Material Lecetten (a) Top, bottom, end (b) Channel 11 ternovable, bults u Design pressure ³ no below to be comple Salety Valve Outlets Nuzzles: Purpose (inlet, Outlet, Drein) Inspection Manhole Openinger Handhol Threade	Thickness R Thickness R SPEC. NO SECTION - PÀRĂ. NO. QA ENGR. CA ENGR. CATE VATE VATE PL THENT I VESSER VATE PL THENT I VESSER VATE VAT	T.S. rown Knuckle rown Redius rown Redius	R.T		No. of Courses	T.S. Flad Diemeter Diemeter Doescribe or a right Impact	Siderta Pres (Conv. or Con

PLAN No 2-1507
NTS I
Date: 04/02/98
Sheet: 1 of 1
Unit: WNP-2

- (c) Type Code Symbol Stamp: Not Applicable
- (d) Certificate Of Authorization No.: Not Applicable

(e) Expiration Date: Not Applicable

- 4. Identification Of System: Control Rod Drive (CRD) 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
CRD-V-102A/1411	Dragon	DL 10154	N/A .	N/A	1977	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced vent and stem cover plugs for existing valve CRD-V-102A/1411. The replacement work was performed as follows:

1) Installed new replacement vent plug for existing valve CRD-V-101A/1411, Serial No DL 10154.

2) Installed new replacement stem cover plug for existing valve CRD-V-101A/1411, Serial No DL 10154.

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		• जिस्सा	UNGTON PUBLIC POR		PLAN No 2-15
			PPLY SYSTE		
FC	ORM NIS-2 OWNER	S REPORT I	FOR REPAIRS	OR REPLACEME	ENTS (Back)
Fest s Conduct	ed: Hydrostatic Test Pressure: Psig Component Design			Operating Pressur Test Temperature: Temperature: ° F	
Remarks: Soo a	attached N-2 Code Data Re	port for the new	replacement vent a	nd stem cover plugs, H	bat No 73746.
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		CERTIFICA	TE OF COMPLI	ANCE	, - , -
to the rules of Type Code Sy Certificate Of	the ASME Code, Set mbol Stamp: Not Applic Authorization No.: No te: Not Applicable	ction XI. cable	Signed By	VI. S	b Sup 6
····	Kuldip Singh - Program Le	ad Engineer (Pl			gram Lead Engineer (PLE)
Date	4298		Date	42	<u>98</u>
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1	CERT	'IFICATE OF	FINSERVICE IN	ISPECTION	•
	gned, holding a valid stors and the State of				
				have inspec	cted the components
state to the be corrective me ASME Code, S By signing the implied, conce Furthermore,	this Owner's Report d est of my knowledge i asures described in t Section XI. is certificate neither t erning the examination neither the inspector erty damage or a loss	and bellef, th this Owner's he inspector ons and corre nor his emp	ne Owner has pe Report in acco nor his employ ective measure ployer shall be li	rdance with the re /er makes any wa s described in this lable in any mann	ntions and taken equirements of the rranty, expressed or s Owner's Report. er for any personal
		noller	Commissions		• •
	<i>eplacement 1° NPS And Sn</i> hspector's Signature	ianoi	••	National Roard S	tate, and Endorsements

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•.	As required by the Provision of the ASME Code Rules, Section III, Div. 1 $$
	PLAN NO. 2-1507
. ((a) Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650
- 4	
	(b) Manufactured for <u>General Electric Company</u> , <u>I&SE</u> , <u>Richland</u> , <u>WA 99352</u> (Name and address of N Certificate Holder for completed nuclear component)
3	Identification-Certificate Holder's Serial No. of Part HT #73746Nat'l Bd. No
	(a) Constructed According to Drawing No. 7441 Drawing Prepared by Dragon Valves, Inc.
((b) Description of Part Inspected Plug for Vent and Drain Valves CRD_V-102A/141/SANDLIC
((c) Applicable ASME Code: Section III, Edition <u>1971</u> , Addenda date <u>12-31-74</u> , Case No. <u>Cluss</u> <u>2</u>
	Remarks: Plug is for replacement in 1" and 3/4" Vent and Drain Valves, Valve Nos.
	10649-3 and 10649-5 for Control Rod Drive System. (50 pcs part minibal 24-7441-115)
	CRD-V-102 CRD-V-101
•	Quedity Quedity 4/15/51
,	We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code con-
om Chi at:	ns to the rules of construction of the A ^S ME Code Section III. e applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certifi- e Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not luded in the component Design Specification and Stress Report.)
At	November 10, 1978 Signed Dragon Valves, Inc. By Daufice
ler	rtificate of Authorization Expires May 6, 1981 Certificate of Authorization Nov N-1034
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
1	Design information on file at General Electric Co.
:	Stress analysis report on file at not applicable
	Design specifications certified by David J. Murphy . Prof. Eng. State WA Reg. No. 12542
;	Stress analysis report certified by not required Prof. Eng. State Reg. No
	CERTIFICATE OF SHOP INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
;	and/or the State or Province of CALIFORNIA and employed by <u>Division of Industrial Safery</u>
•	Partial Data Report on $1/-10^{-}$ 19 Vand state that to the best of my knowledge
	and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concern- ing the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected
	with this inspection.
	Date 1/- 10. 19 78
	Commissions CA \$57
5	upplomental whereis in form of lists, sketches or drawings may be used provided (1) size is 850° x 11°, (2) information in Items 1-2 on this
17	D/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017
10	this form record of may be obtained from the Order Deputy Adminet and C., New York, N.T. 10017

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

WASHINGTON PUBLIC POWER

- 1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (MRPSS) Nuclear Power Plant (MN)
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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

N

- 4. Identification Of System: Control Rod Drive (CRD) 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
 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
CRD-V-102A/1443	Dragon	DL 10129	N/A	N/A	1977	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced vent and stem cover plugs for existing valve CRD-V-102A/1443. The replacement work was performed as follows:

1) Installed new replacement vent plug for existing valve CRD-V-101A/1443, Serial No DL 10129.

Date: 04/02/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1508

Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F	
ests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Test Pressure: Psig Component Design Pressure: Psig Temperature: ° F Temperature: ° F	
Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F	
Comarke: San attached N. O. Cada Data Danat for the new carles and attack and attack any allost No. 79746	None
Remarks: See attached N-2 Code Data Report for the new replacement vent and stem cover plugs, Heat No 73746.	-
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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. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable Prepared By Julan Kuldip Singh - Program Lead Engineer (PLE) Date 4/2/98	-
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 and employed by	_ [
described in this Owner's Report during the period to 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.	
<u>Not Required - Replacement 1^e NPS And Smaller</u> Inspector's Signature National Board, State, and Endorsements	-
Date	

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•ر	•	As required by the Provision of the ASME Code Rules, Section III, Div. 1
1		PLAN NO. 2-1508
	L	(a) Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650
	•	(b) Manufactured for General Electric Company, I&SE, Richland, WA 99352
)	· (Name and address of N Certificate Hulder for completed nuclear component) Identification-Certificate Holder's Serial No. of PartHT #73746Nat'l Bd. No
	2.	· · ·
*		(a) Constructed According to Drawing No. 7441 Drawing Prepared by Dragon Valves, Inc.
		(b) Description of Part Inspected Plug for Vent and Drain Valves CRD-V-102 1443 SNDL1012
		(c) Applicable ASME Code: Section III, Edition 1971, Addenda date 12-31-74, Case NoCluss 2
•	3.	Remarks: Plug is for replacement in 1" and 3/4" Vent and Drain Valves, Valve Nos. (Brief description of service for which component was designed)
*		10649-3 and 10649-5 for Control Rod Drive System. (50 pcs pait monther 24-7441-115)
۲		<u>CRD-V-102</u> <u>CRD-V-101</u>
		Quedits Lungs 4/15/51
	(T) Icai	We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code con- ms to the rules of construction of the A ^c ME Code Section III. The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certif- te Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not shuded in the component Design Specification and Stress Report.)
•.	D۸	te_ November 10, 1978_ Signed Dragon Valves, Inc. By Dauffill
		rtificate of Authorization Expires May 6, 1981 Certificate of Authorization No. N-1034
3		CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
		Design information on file at General Electric Co.
1		Stress analysis report on file at not applicable
		Design specifications certified by David J. Murphy Prof. Eng. State WA Reg. No. 12542
		Stress analysis report certified by Reg. No Prof. Eng. State Reg. No
		CERTIFICATE OF SHOP INSPECTION
		I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
-		and/or the State or Province of <u>CALIFORNIA</u> and employed by <u>Division of Industrial Safety</u>
r 61		Partial Data Report on $\frac{1}{2}$ and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerne
		ing the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
		Date11-10.1978_
		supplementals heres in form of lists, sketches or drawings may be used provided (1) also is 8%" x 11", (2) information in items 1-2 on this bits and all or the sets there is provided in the sets the se
	D)	0/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017
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te	ms 4-8 Incl. to be con	pleted for sin	gle wall v	essels, jac	ckets of jac	keted vessels	, or shells o	heat exchange	
4.	Shell: Material (Kind & 3	T.S	No Th of Range S	ominal hickness pecified)	in. Allow	sion anc <u>e</u> in.	Dia /t	in. Length_	i i
5.	Seams: Long		т.'		_ R.T	• •	Elliciency_	······	. 7.
6.	Heads: (a) Material					-		,	
	Location (Top, bottom, ends)			Redlus	Ratio	Apes Angle	Redius	Dismeter	Side (o Press, > (Conv. or Conc.)
	(a) (b)								· ······
	If removable, bolts us	red				Other last	enine	· ·	
_		(Meter	ial, Spec. N	o., T.S., Size	r, Number)			(Describe or alta	ch sketch)
7.	Jacket Closure:	ibe as eges and	weld, bat, e	ic, li bargive	dimensions,	lf bolted, descr	be or sketch}		
			`					p Weight arpy Impact	
8.	Design pressure ²	· *		psi at	·		°F at	rpy impact	
					·				
ten	ns 9 and 10 to be comp	leted for tube	sections		•	· ·			
9.	Tube Sheets: Station	ry. Material.		Dia	le <u></u>	Thic	kness in	Attachnient	
-	Floatin Tubes: Material	g. Material_	0.0	Dis Th:	•• •• ·	Thic inches	knessin	- Attachment	
0.	tubes. Material		0.0		cxncss		, Number	Iyp	(Stř or U)
сA	ns 11-14 incl. to be co	mpleted for in	ner cham	bers of jacl	keted vesse	is, or channel	s of heat ex	changers	<u></u>
		<u> </u>		minal	Corro		······································		
1.	Shell: Material	T.S	Th	ickness	in. Allow	ance	Dia (t		/t in.,
		Me. No.) (Min.)							•
2.	Seams: Long	H.	T.'	 	_ R.T		Efficiency_		-7
			1						4
2	Heads (a) Material	н.							
	neros (a) sintensi					-		×	···Siderta Press.
	Lecation	Thickness	Crown Rediue	Knuckle Rødius	Elliptical ""Ratio	Conical Apex Angle	Hemispherid Redius		(Conv. or Conc.)
	(a) Top, bottom, ende						<u> </u>		
	(b) Channel	-corc_110		208.215	and the second	freen antibilit	et l		
	Il removable, bulta u	red (a)	ALL IN	A. 2020		UT CT	her Intening	(Describe or a	
		SECTION	-		3/2/		Dro	p Veight	
	_ ·]	PARA, NO.	. ¹ 4	N	//+			rpy Impace	[t+1b
	Design pressure"	OA ENGR.		psi at				emp. of	°F
4.				monlicabl					
_	na below to be complet	entitientitit ven	scis mucij			the second s			<u>_</u>
_	ne belan to be comple				Som	nen			
en	ne below to be comple Salety Valve Outleta	ealimiei ves			Spor	racion		. ź	
5.		ENGINEER WATE	-		- Sport	xation		- <u>-</u>	
5.	Salety Valve Outletz Nuzzles: Purpuss (Inist,	EN GINEET		4/ - 4			-	Reinforcement	
5.	Salety Valve Outlets Nuzzles:	ENGINEER WATE	-	4/ - 4	- Sport	Cation	-		How Alloched
5.	Salety Valve Outletz Nuzzles: Purpuss (Inist,	ENGINEER WATE				ilit TSI	-	Reinforcement	How Alloched
5.	Salety Valve Outletz Nuzzles: Purpuss (Inist,	ENGINEER WATE					-	Reinforcement	How Attached
5.	Salety Valve Outlets Nuzzles: Purpuss (Iniet, Outlet, Drain)							Reinforcement	How Alloched
5.	Salety Valve Outlets Nuzzles: Purpuse (iniet, Outlet, Drain)	PETANIPUA PETANIPUA PETANIPUA						Reinforcement	How Alloched
5.	Salety Valve Outlets Nuzzles: Purpuse (iniet, Outlet, Drain) Inspection Manholes Openinger Handhole Threaded		Sii			tion		Reinforcement	How Alloched
5.	Salety Valve Outlets Nuzzles: Purpuse (iniet, Outlet, Drain) Inspection Manholes Openinger Handhole Threaded			20		tion tion tion tion		Reinforcement Material	
5.	Salety Valve Outlets Nuzzles: Purpuse (inist, Outlet, Drain) Inspection Manholes Openingst Handhole		Sii	20		tion tion tion tion		Reinforcement Material	How Alloched

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SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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	9	N/A	1974	Replacement	Yes, Code Class 1
LPRM	General Electric	6615137	N/A	N/A	1979	Replaced	Yes, Code Class 1
LPRM	General Electric*	M433	N/A	N/A	1993	Replacement	Yes, Code Class 1
LPRM	General Electric	6615110	N/A	N/A	1979	Replaced	Yes, Code Class 1
LPRM	General Electric*	M3353	N/A	N/A	1993	Replacement	Yes, Code Class 1
LPRM	General Electric	6615135	N/A	N/A	1979	Replaced	Yes, Code Class 1
LPRM	General Electric*	M431	N/A	N/A	1993	Replacement	Yes, Code Class 1
LPRM	General Electric	6612561	N/A	N/A	1978	Replaced	Yes, Code Class 1
LPRM	General Electric*	M423	N/A	N/A	1993	Replacement	Yes, Code Class 1
LPRM	General Electric	6612555	N/A	N/A	1978	Replaced	Yes, Code Class 1
LPRM	General Electric*	M3798	N/A	N/A	1993	Replacement	Yes, Code Class 1
LPRM	General Electric	6615112	N/A	N/A	1979	Replaced	Yes, Code Class 1
LPRM	General Electric*	M432	N/A	N/A	1993	Replacement	Yes, Code Class 1
LPRM	General Electric	6615122	N/A	N/A	1979	Replaced	Yes, Code Class 1
LPRM	Goneral Electric*	M427	N/A	N/A	1993	Replacement	Yes, Code Class 1
LPRM	General Electric	6615109	N/A	N/A	1979	Replaced	Yes, Code Class 1
LPRM	General Electric*	95S01116	N/A	N/A	1995	Replacement	Yes, Code Class 1
LPRM	General Electric	6612559	N/A	N/A	1978	Replaced	Yes, Code Class 1
LPRM	General Electric*	95S01115	N/A	N/A	1995	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced existing Local Power Range Monitoring (LPRM) incore assemblies. The replacement

work was performed as follows:

Permoved existing Local Power Range Monitoring (LPRM) Incore assemblies Serial No's 6615137, 6615110, 6615135, 6612561, 6612555, 6615112, 6615122, 6615109 and 6612559 from the Reactor Pressure Vessel core locations listed below.
 Installed new replacement Local Power Range Monitoring (LPRM) incore assemblies Serial No's M433, M3353, M431, M423, M3798, M432, M427, 95S01116 and 95S01115 in the Reactor Pressure Vessel core locations listed below.

Core Location	Core Location	Core Location		Core Loc	ation
08-49	24-49	` 40-25		48-09	
16-57	32-49	40-57	•	56-17	
1 24.25					

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1) * General Electric (GE) Reuter-Stokes

ASME Section III, Code Class 1, 1971 Edition with Summer 1973 Addenda for the Reactor Pressure Vessel (RPV)
 ASME Section III, Code Class 1, 1977 Edition with Summer 1977 Addenda for the new replacement Local Power Range Monitoring (LPRM) incore assemblies Serial No's M433, M3353, M431, M423, M3798, M432, M427, 95S01116 and 95S01115

Date: 05/19/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1509

		SUPPLY SY		PLAN No 2-15
FOR	M NIS-2 OWNER'S RI		•	ACEMENTS (Back)
*	: Hydrostatic 🌅 Pn		inal Operating I	
	Test Pressure: Psig Component Design Pr		Test Tempe Temperațui	erature: ° F
Remarks: See atta emblies:	ched N-2 Code Data Reports	for the following new rej	placement Local Pov	wer Range Monitoring (LPRM) incore
Core Location 08-49	<u>LPRM Serial No</u> M433	Core Location 40-25	<u>LPRM Serial No</u> M432	
16-57 24-25 24-49 32-49	M3353 M431 M423 M3798	40-57 48-09 56-17	M427 95S01116 95S01115	, , , , , , , , , , , , , , , , , , ,
	CE	RTIFICATE OF CO	MPLIANCE	• •
				and this replacement conforms
Prepared By k Date	Under Sigh - Program Load & SJ20198	کرمنے Sign Enginoor (PLE) Date	•	bup Euch ingh - Program Lead Engineer (PLE) 5/20(98
	CERTIFI	CATE OF INSERV	CE INSPECTIO	Ņ
Vessel Inspecto	ors and the State of Wa	shington <i>and emplo</i> ted the component	yed by Arkwrigh s described in t	oard of Boller and Pressure t Mutual Insurance Company this Owner's Report during the my knowledge and belief, the
Owner has perf in accordance v By signing this implied, concer Furthermore, no	ormed examinations a with the requirements of certificate neither the ning the examinations either the inspector no	nd taken corrective of the ASME Code, Inspector nor his e and corrective me r his employer sha	measures des Section XI. mployer makes asures describe Il be liable in an	cribed in this Owner's Report any warranty, expressed or ed in this Owner's Report. by manner for any personal ed with this inspection.
		Commis	sions <u>7466 W</u> Nationa	Board, State, and Endorsements
Data (722)	195			

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	t	WURL URDER NUMBER: 2546
1 - 1		PLAN NO. 2-1509
-		FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
•		As required by the Provisions of the ASME Code Rules there of Surph
	•	510198
) 1.	GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44087
		(b) Manufactured for WNP-2 - WASHINGTON PUBLIC PUWER SUPPLY SISTER, RICHARD, WR 99552. (None and address of Manufacture of completed nuclear component)
	່ 2.	Identification-Manufacturer's Serial No. of Part SEE PAGE 2 Nat'l Bd. No N/A
		(a) Constructed According to Drawing No. RS-E5-1260-201 Drawing Prepared by GE_REUTER-STOKES.
,		(b) Description of Part inspected POWER RANGE DETECTOR DRY TUBE
° ₽		(c) Applicable ASME Coder Section III, Edition 1977, Addenda date 1977, Case No. N/A Class 1
5,	3.	Remarks: DESIGN: PRESSURE 1250 PSIG, DESIGN TEMPERATURE 575°F (Brief description of service for which component was designed)
		HYDROSTATIC TEST PRESSURE: 1925 PSIG
	•	
		· · ·
		We certify that the statements made in this report are correct and this vessel part or appartenance as defined in the Code con-
	Dat	te 10/19 1993 Signed GE REUTER-STOKES By QUALITY ASSURANCE (Memdesturer) QUALITY ASSURANCE milicate of Authorization No N-2703
-	Γ	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
		Design information on file a 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
	1	Design specifications certified by SURINDER L. KAMPANI Prof. Eng. State OH Reg. No. E-034113
• ب		Stress analysis report certified by DOUGLAS E. BACSO . Prof. Esg. State OH Reg. No.E-044071
		CERTIFICATE OF SHOP INSPECTION
10		I, the undersigned, holding a valid commission issued by the National Board of Beiler and Pressure Vessel Inspectors and/or the State or Prevince of <u>OHIO</u> and employed by <u>H.S.B.I. & I. CO.</u> HARTFORD, CT have inspected the part of a pressure vessel described in this dasufacturer's Partial Data Report on <u>10-18</u> 1923, 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 ser his employer makes any warranty, expressed or implied, concern- ing the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector ser his employer thall be linble in any manner for any personal injury or property damage or a loss of any kind arising from or consected with this inspection.
		Date 10-18 19 93 Jacob C. Lolall Commissions ALB 7920 AND DHID PANIC 2454-N Inspector's Signature Commissions ALB 7920 AND DHID PANIC 2454-N
	Y C	E.

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

As required by the Provisions of the ASME Code Rules `

	· · · · · · · · · · · · · · · · · · ·	
1. (a) Manufactured by	GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44	<u>087 ''</u>
٩	(If sine and address of Statutations of part)	
(b) Manufactured for	WNP-2 - WASHINGTON PUBLIC POWER SUPPLY SYSTEM, RICHLAND, WA	935
	(Nome and oddress of Manufacturer of completed nuclear component)	
2. Identification-Manufac	couver's Seciel No. of Part SEE BELOW Nat'l B4. No N/A	
(s) Constructed Account	rding to Drawing No. RS-E5-1260-201 Drawing Prepared by GE REUTER-STOKES	
(b) Description of Par	re laspected POWER RANGE DETECTOR DRY TUBE	
(c) Applicable ASHE C	SUMMER Coder Section III, Edition <u>1977</u> , Addenda date <u>1977</u> , Case No. <u>N/A</u> Class	1 •
3. Remarks: DESIGN:	PRESSURE 1250 PSIG, DESIGN TEMPERATURE 575°F	-
	(Brist description of sorvice for which component was designed)	
	HYDROSTATIC TEST PRESSURE: 1925 PSIG	~~
•		
	• · · · · · · · · · · · · · · · · · · ·	

SERIAL NUMBERS:	M3341	thru	MB	355
•	M3791	thru	M3	801
	M3803,	M380	4,	M3805
	M5263			

QUALITY ASSURANCE

10/18/93 DATE

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8.9 10-1 DATE

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NB7920-OHIO-PAWC2454-N

	PLAN NO: 2-1509
•	FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
*	As required by the Provisions of the ASME Code Rules
	Manufactured by GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44087
) Manufactured for WNP-2 - WASHINGTON PUBLIC POWER SUPPLY SYSTEM, RICHLAND, WA 99352 (Name and address of Manufactures of completed nuclear component)
	entification-Manufacturer's Serial No. of Part <u>M423 thru M437</u> Nat'l Bd. No. <u>N/A</u>
(=)) Constructed According to Drawing No. RS-E5-1260-201 Drawing Prepared by <u>GE_REUTER-STOKES</u>
, (Ъ)	Description of Part Inspected POWER RANGE DETECTOR DRY TUBE
(c)	SUMMER Applicable ASME Code: Section III, Edition <u>1977</u> , Addenda date <u>1977</u> , Case No. <u>N/A</u> Class <u>1</u>
-3. Re	Brief description of service for which component was designed)
~ 	HYDROSTATIC TEST PRESSURE: 1925 PSIG
• -	
	· · · · · · · · · · · · · · · · · · ·
•	component Design Specification and Stress Report.) <u><u><u>J</u></u>/<u>35</u> 19 92 Signed <u>GE REUTER-STOKES</u> (Manufacturer) <u>QUALITY ASSURANCE</u> cate of Authorization Expires <u>SEPTEMBER 16, 1994</u> Certificate of Authorization No. <u>N-2703</u></u>
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
Des	sign information on file atGE REUTER-STOKES, INC. TWINSBURG, OHIO CDS-C-5026-1
Stre	ess analysis report on file atGE REUTER-STOKES, INC. TWINSBURG, OHIO _CDR-C-5253-04
Des	ign specifications certified by SURINDER L. KAMPANI Prof. Eng. State OH Reg. No. E-034113
Stre	ss snalysis report certified by DOUGLAS E. BACSO Prof. Eng. State OH Reg. No. E-044071
	CERTIFICATE OF SHOP INSPECTION
and/ of Many and E ing shal	, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors (or the State or Province of <u>OHIO</u> and employed by <u>H.S.B.I. & I. Co.</u> <u>HARTFORD</u> , CT have inspected the part of a pressure vessel described in this ufacturer's Partial Data Report on <u>Z-Z4</u> 19 <u>P.3</u> , and state that to the best of my knowledge 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, concern- the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer I be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected this inspection.
	2-25 19 93 ecsf. C. Sefall Commissions NB 7920-A-N-OHIO-PAUX 2454 Inspector's Signature Commissions NB 7920-A-N-OHIO-PAUX 2454 National Beard, State, Province and No.
6	K.

2-25-73

WORK ORDER NUMBER: 7316	
, PLAN NO. 2-15	00
FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES	6
As required by the Provisions of the ASME Code Rules. Huldip So	
(a) Manufactured by GE REUTER-STOKES, INC. 8499 DARROW ROAD, TWINSBURG, OHIO 44087 (Name and address of Manufacturer of part)	<u>19</u> [9
(b) Manufactured for WNP-2, WASHINGTON PUBLIC POWER SUPPLY SYSTEM, RICHLAND, WA 9935 (Name and address of Manufactures of completed nuclear component)	2
. Identification-Manufacturer's Serial No. of Part <u>95S01114</u> ~ 95S01116 Nat!1 Bd. No. <u>N/A</u>	
(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 NoN-176-1 Class 1	
Remarks: DESIGN: PRESSURE 1250 PSIG, TEMPERATURE - VESSEL 575°F. SEAL 300°F.	
HYDROSTATIC TEST PRESSURE: 1925 PSIG	
	-
·	
We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code comms to the rules of construction of the ASME Code Section III.	
he applicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenanc nulacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not include	:e :d
the component Design Specification and Stress Report.)	
10/17 GE CE DELITER-STOKES	
(Manufacturer) By QUALITY ASSURANCE	
recificance of Authorization ExpiresSEPTEMBER 16, 1997 Certificant of Authorization NoN-2703	
	٦
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)	
Design information on file at GE REUTER-STOKES, INC. TWINSBURG, OHIO DC24A1257AK	
Stress analysis report on file at GE REUTER-STOKES, INC. TWINSBURG, OHIO CDR-C-5320-139	
Design specifications certified by SURINDER L. KAMPANI Prof. Eng. StateOH 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 ofOHIO and employed byH.S.B.I. & I. Co.	
HARTFORD, CT have inspected the part of a pressure vessel described in this	
Manufacturer's Partial Data Report on	
Date 10-17 19 95	
Jacob C. Lehall Commissions OHID - NB 7920 AN	
Inspector's Signature Commissions (111) - 100/ Commissions National Beard, State, Province and Ne.	
WPRSS porend for sent 10/14/85	
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: Reactor Recirculation Cooling (RRC) 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
RRC(51)-4	WPPSS	RRC(51)-4-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
RRC-V-20	Target Rock	2	N/A	N/A	1986	Replaced	Yes, Code Class 1
RRC-V-20	Target Rock	5	N/A	N/A	1997	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced existing valve RRC-V-20. The replacement work was performed as follows: 1) Removed existing valve RRC-V-20, Serial No 2, Model No 86Q-001-1.

- 2) Prepped the existing elbow socket end surfaces.
- 3) Performed liquid penetrant (PT) examination on the existing elbow socket end prepped surfaces. Liquid penetrant (PT) examination results acceptable.
- 4) Installed new replacement piping material such as flanges and pipe.
- 5) Installed new replacement valve RRC-V-20, Serial No 5, Model No 96T-001.
- 6) Made required socket welds.
- 7) Performed visual examination on the final socket welds. Visual examination results acceptable.
- 6) Performed liquid penetrant (PT) examination on the final socket welds. Liquid penetrant (PT) examination results acceptable.
- 9) Installed new replacement studs and nuts for the flanged joints associated with the new replacement valve RRC-V-20, Serial No 5, Model No 96T-001.

NOTES -

1) ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda for the Reactor Recirculation Cooling (RRC) piping system RRC(51)-4-P1.

2) ASME Section III, Code Class 1; 1980 Edition with Winter 1981 Addenda for the new replacement valve RRC-V-20, Serial No 5, Model No 96T-001.

Date: 05/22/98 Sheet: 1 of 1 Unit: WNP-2

	\$	SUPPLY SYSTE	
FOR	M NIS-2 OWNER'S REP	ORT FOR REPAIRS	OR REPLACEMENTS (Back)
	Hydrostatic Pneun Test Pressure: Psig Component Design Press	······	Operating Pressure Other X No Test Temperature: ° F Temperature: ° F
emarks: Soo attac	ched NPV-1 Code Data Report fo	r the new replacement va	lve RRC-V-20, Serial No 5, Model No 96T-001.
			•
		. *	
,		ف	
	CERTI	FICATE OF COMPI	LIANCE
to the rules of th Type Code Sym	ne ASME Code, Section X bol Stamp: Not Applicable uthorization No.: Not Applica	<i>l.</i>	are correct and this replacement conforms
P repared By К	Under Singh - Program Load Engli	ی کے۔ Noor (PLE)	By Kuldip Singh - Program Lead Engineer (PLE)
Date	\$ 22(98	, Date	5/22/98
	, <u> </u>	v	
	CERTIFICA	TE OF INSERVICE	INSPECTION
l, the undersign Vessel Inspecto	ed, holding a valid comm rs and the State of	ission issued by the and en	National Board of Boiler and Pressure
-			have inspected the components
state to the besi corrective meas ASME Code. Se	ures described in this Ov ction XI.	lief, the Owner has , vner's Report in acc	performed examinations and taken cordance with the requirements of the
Implied, concern Furthermor e , ne	ning the examinations an lither the inspector nor hi	d corrective measur 's employer shall be	oyer makes any warranty, expressed or res described in this Owner's Report. Hable in any manner for any personal or connected with this inspection.
	acement 1* NPS And Smaller	Commission	ns National Board, State, and Endorsements
Insp	ector's Signature		National Board, State, and Endorsements

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		sions of the ASME Co		Pg. 1 of	, * •
. Manufactured and ce	rtified by <u>Target</u>	Rock Corp.; 19	66E Broadholl	ow Rd.; Farming	gda 1
2. Manufactured for	Washington Pu	blic Power Sup	ess of N Certificate Holder) ply System; R	ichland, WA	•
		(name and address th Power Plant	s of Purchaser)	and, WA	
		(name ar	nd address) 1 B	NA	
Model No., Series No	., or Type96T-001		Hev	CRN	
5. ASME Code, Section		80 Winter dition) (addenda d		(Code Case no.)	
5. Pump or valve <u>V</u>	alve Nomina	l inlet size1	Outlet size	<u>1</u>	
7. Material: Body <u>SA</u>	479 316. Bonnet	(in.) SA479 XM-19 Disk		in.) ting <u>SA453 660</u>	
(a)	. (b)	(c)	(d)	(e)	
Cert.	Nat'l	Body	Bonnet	Disk Serial	
Holder's Serial No.	Board No.	Serial No.	Serial No.	No.	
1	NA	12	14	13	
2	NA NA	20	13		
3	NA .	9	11	12.	
4	NA	19	18	· 14 "	
5	<u>NA</u>	1	6	11*	
<u>NA</u>	······				
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		0, S N 5			
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			<u> </u>		

* 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.

(12/88)

This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive. Box 2300. Fairfield. NJ 07007-2300. REPRINT 6/93

	FURM	WPV-1 (Back -	• Pg. 2 of	1		
			Certif	licate Holder's Se	rial No. <u>1 - 5</u>	
1	550	575			N/A	. (1)
8. Design conditions1	(pressure)	temperatu		aive pressure clas	, ,	
9. Cold working pressure	3600	_ psi at 100°F	a		ĸ	•
IO. Hydrostatic test65	<u>75</u> psi. Di	sk differential test (ressure	<u>N/A</u>	•	psi
1. Remarks: Indic	<u>ator Tube</u>	SA479 316	S/N 45	03, 4502,	4499, 45	<u>00, 4</u> 501
Clamp	Ring	SA479 XM-	19 S/N 2	43, 239,	240, 242,	241
Flang	e & Stub E	nd SA182 F	316 S/N	1-10		
						~
·····		CERTIFICATION (F DESIGN			
Design Specification certified	Iby Abbas	A. Mostala	P.E. State .		Reg. no. <u>2877</u> Reg. no. <u>0560</u>	7
Design Report certified by	J. Kar	idas	P.E. State .	<u></u>	Reg. no. 0500	<u>+/</u> .
				· ·		
······································	1	CERTIFICATE OF C	OMPLIANCE			
We certify that the statement		rt are correct and th	hat this pump or v	valve conforms to	the rules for cons	truction
of the ASME Code, Section I N Certificate of Authorization	I, Division 1.	N-1947		Evoiree	12/12/98	"
. .						
Date <u>4/22/97</u> Name	<u> Target R</u>	<u>ock Corp.</u>	Signed	$\leq/2^{\circ}$		
	· (N Ceri	tificate Holder)		((autionized	l representative)	
			• [R. Glazie	r, Mgr.,	Q.E.
	· · · · · · · · · · · · · · · · · · ·	CERTIFICATE OF I	ISPECTION	•		
					3	
I, the undersigned, holding a the State or Province of	a valid commissior <u>New York</u>		and employed t	by <u>Commer</u>	<u>cial Unio</u>	<u>n Ins</u> .
of <u>Boston</u> , MA					ed in this Data Re	
structed this pump, or valve,		that to the best of the ASME Code, S			ertificate Holder h	las con-
By signing this certificate, ne	aither the inspecto	r nor his employer	makae anu warr	anty expressed o	r implied, concerr	ning the
component described in this						
any personal injury or propert			frem or connect N. Y. ST	ed with this inspe	SSION NO. 2	288
Date <u>4/22/77</u> Signed	(Authorized Inspec	L-MUCONINAS			PENN., OHIO &	

(1) For manually operated valves only.

			PLY SYS				A
		OWNER'S REPOR red By The Provis					н. •
1. Owner: Wash	ington Public Power S	upply System (WPPSS)				Date:	05/22/98
Address: WN	IP-2 Plant Site, North	Power Plant Loop, Richla	nd, Washingto	n, 99352		Shee	t:1 of 1
1		pply System (WPPSS) Ni				Unit:	WNP-2
	-	Power Plant Loop, Richla		• •	*		
		ngton Public Power Supp					
		lo, Job No, etc.: Was			ply Syste	m (WPPSS)	
(c) Type Cod	e Symbol Stamp.	Not Applicable	-	-		•	
(d) Certificate	of Authorizatio	n No.: Not Applicable					
(e) Expiration	Date: Not Applicab	0				• •	
4. Identification	n Of System: Proc	ess Sampling Radioactive	(PSR) System	า	۲	-	
5. (a) Applicabl	e Construction (ode: ASME Section III,	Code Class 1,	1974 Editi	on with W	inter 1975 Addenda	, Code Case: None
(b) Applicabl Code Case:		E Section XI Utilize	d For Repa	irs Or Re	placem	ents: 1989 Edition	with no Addenda,

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	Replacement	Yes, Code Class 1
PSR-V-X77A/1	Target Rock	1	N/A	N/A	1986	Replaced	Yes, Code Class 1
PSR-V-X77A/1	Target Rock	6	N/A	N/A	1998	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced existing valve PSR-V-X77A/1. The replacement work was performed as follows: 1) Removed existing valve PSR-V-X77A/1, Serial No 1, Model No 86Q-001-1.

2) Prepped the existing tee socket end surfaces and coupling socket end surfaces.

3) Performed liquid penetrant (PT) examination on the existing tee socket end prepped surfaces and coupling socket end prepped

surfaces. Liquid penetrant (PT) examination results acceptable. 4) Prepped the replacement flange socket end surfaces.

5) Performed liquid penetrant (PT) examination on the replacement flange socket end prepped surfaces. Liquid penetrant (PT) examination results acceptable.

6) Installed new replacement piping material such as flanges and pipe.

7) Installed new replacement valve PSR-V-X77A/1, Serial No 6, Model No 96T-001.

8) Made required socket welds.

9) Performed visual examination on the final socket welds. Visual examination results acceptable

10) Performed liquid penetrant (PT) examination on the final socket welds. Liquid penetrant (PT) examination results acceptable.

11) Installed new replacement studs and nuts for the flanged joints associated with the new replacement valve PSR-V-X77A/1, Serial No 6, Model No 96T-001.

NOTES.

1) ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda for the Process Sampling Radioactive (PSR) System PI(1)-4S-X77Ac.

2) ASME Section III, Code Class 1, 1980 Edition with Winter 1981 Addenda for the new replacement valve PSR-V-X77A/1, Serial No 6, Model No 96T-001.

	PLAN No.2-1512
FORM NIS-2 OWNER'S REPOR	RT FOR REPAIRS OR REPLACEMENTS (Back)
Tests Conducted: Hydrostatic Pneumat Test Pressure: Psig Component Design Pressure	Test Temperature: ° F
Remarks: See attached NPV-1 Code Data Report for th	he new replacement valve PSR-V-X77A/1, Serial No 6, Model No 96T-001.
	······································
CERTIFIC	CATE OF COMPLIANCE
We certify that the statements made in this 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 - Program Lead Eriginee Date S2198	Signed By Kuldip Supp
,	A
I, the undersigned, holding a valid commiss	COF INSERVICE INSPECTION sion Issued by the National Board of Boiler and Pressure and employed by have Inspected the components
corrective measures described in this Own ASME Code, Section XI. By signing this certificate neither the inspec implied, concerning the examinations and c Furthermore, neither the inspector nor his e	have inspected the components e period to and of, the Owner has performed examinations and taken er's Report in accordance with the requirements of the ector nor his employer makes any warranty, expressed or corrective measures described in this Owner's Report. employer shall be liable in any manner for any personal kind arising from or connected with this inspection.
injury or property damage or a loss of any k	

PLAN NO. 2-1512 Queanp Sing

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

Pg. 1 of _2_

Manufactured and certific				<u>Y 11735</u>
Manufactured for			Richland, WA	
Location of installation _			. WA	
Model No., Series No., or	r Type <u>96T-001</u>	Drawing <u>96T-00</u>	1 Rev. <u>_B</u>	CRN <u>N/A</u>
ASME Code, Section III,	Division 1: <u>1980</u> (edition)	Winter 1981 (addenda date)	(class)	None (Code Case no.)
Pump or valve <u>Valve</u>	Nominal inlet size	e1(in.) ^r	Outlet size	l (in.)
Material: Body <u>SA479</u>	316 Bonnet	<u>SA479 XM-19</u> Di	isc <u>SA479 348</u>	Bolting SA453 660
(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body S c rial No.	(d) Bonnet .Serial No.	(c) Disc S c rial No.
6	N/A	11	2	65
N/A		N/A	N/A	N/A
P	5R-V-X71A	11, SIN 6	······	
	Manufactured for Location of installation Model No., Series No., or ASME Code, Section III, Pump or valveValve Material: Body <u>Valve</u> (a) Cert. Holder's Serial No. <u>6</u> N/A	(name and addr Manufactured for <u>Washington Public F</u> (name and address Location of installation <u>WNP-2. North Power</u> (name and Model No., Series No., or Type <u>96T-001</u> ASME Code, Section III, Division 1: <u>1980</u> (edition) Pump or valve <u>Valve</u> Nominal inlet size Material: Body <u>SA479_316</u> Bonnet (a) (b) Cert. Nat'l Holder's Board Serial No. No. 6 N/A N/A	(name and address of N Certificate Ho Manufactured for	Location of installation WNP-2. North Power Plant Loop: Richland. WA (name and address) Model No., Series No., or Type 96T-001 Drawing 96T-001 Rev. B ASME Code, Section III, Division 1: 1980 Winter 1981 1 (edition) (addenda date) (class) Pump or valve Valve Nominal inlet size 1 Outlet size (in.) 1' Outlet size (in.) 1' Material: Body SA479 316 Bonnet SA479 XM-19 Disc SA479 348 (a) (b) (c) (d) Eody Bonnet SA479 348 1 (a) (b) (c) (d) Serial Serial Serial No. No. No. No. No. No. 6 N/A 11 2 N/A N/A

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 81/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NPV-1 (BACK - Pg. 2 of ___)

	Certificate Holder's Serial No. 6
8.	Design conditions <u>1550</u> psi <u>575</u> °F or valve pressure class <u>N/A</u> (1) (pressure) (temperature)
9.	Cold working pressure 3600 psi at 100 °F
10.	Hydrostatic test <u>6575</u> psi. Disc differential test pressure <u>N/A</u> psi
11.	Remarks:Indicator Tube, SA479.316, S/N 4651
	Clamp Ring, SA479 XM-19, S/N 298
	Flange & Stub End SA 182 F3 16 S/N 11 & 12
	CERTIFICATION OF DESIGN
De	sign Specification certified by <u>Abbas A. Mostala</u> P.E. State <u>WA</u> Reg. No. <u>28777</u>
De	sign Report certified by <u>S. Karidas</u> P.E. State <u>NY</u> Reg. No. <u>056047</u>

		CERTIFICATE (OF COMP	liance	-	3
We certify that the sta construction of the As N Certificate of Author	SME Code, Sea			t this pump or v _Expir c s	valve conforms to the	rules for
Date <u>2/24/98</u>		Target Rock cate Holder)	```	R. E. Glazie authorized repro	er, Manager, Q.E. resentative)	

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of <u>New York</u> and employed by <u>Commercial Union Ins</u> of <u>Boston</u>. MA have inspected the pump, or valve, described in this Data Report on <u>2/84/955</u> and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

N.Y. STATE COMMISSION NO. 2288 Commission COMMISSIONED IN PENN., OHIO & CONN. Date 24/78 Signed Milliana Q (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: Standby Liquid Control (SLC) 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
SLC(2)-3S	WPPSS	SLC(2)-3S-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2
SLC-RV-29A	Lonergan	137180-1-1	N/A	N/A	1994	Replaced	Yes, Code Class 2
SLC-RV-29A	Lonergan	509258-82-1	N/A	N/A	1978	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced existing relief valve SLC-RV-29A. The replacement work was performed as follows: 1) Removed existing relief valve SLC-RV-29A, Serial No 137180-1-1.

2) Performed VT-3 visual examination on the existing studs for the relief valve outlet bolted joint. VT-3 visual examination results acceptable.

3) Performed VT-3 visual examination on the existing nuts for the relief valve outlet bolted joint. VT-3 visual examination results acceptable.

4) Installed replacement relief valve SLC-RV-29A, Serial No 509258-82-1.

5) Roinstalled VT-3 visually examined existing studs for relief valve outlet bolted joint.

6) Reinstalled VT-3 visually examined existing nuts for relief valve outlet bolted joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve outlet bolted joint. No evidence of leakage during the pressure test.

NOTES-

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1) ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda for the Standby Liquid Control (SLC) System. 2) ASME Section III, Code Class 2, 1974 Edition with Winter 1974 Addenda for the replacement relief valve SLC-RV-29A, Serial No 509258-82-1.

Date: 05/18/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1513

T			SIUNCTON PUBLIC PO			PLAN No 2-151
		4 2	UPPLY SYST	•		
FORM	NIS-2 OWN	ER'S REPORT	T FOR REPAIRS	; OR REP	LACEMENT	S (Back)
	st Pressure:			Test Temp	y Pressure perature: 71.8 ure: 150* ⁰ F	X Other None °F
Remarks: 1) See atta Component design pres	ched NV-1 Code ssure and temper	Data Report for th rature is for the rel	e replacement relief ief valve outlet bolted	valve SLC-R\ joint piping s	V-29A, Serial No system.	o 509258-82-1.
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	٨					
	•					
		CERTIFIC	CATE OF COMP	LIANCE		
We certify that the to the rules of the Type Code Symbol	ASME Code, of Stamp: Not .	, Section XI. Applicable)wner's Report i	ire correct	t <i>and this</i> repl	acement <i>conforms</i>
Certificate Of Auti Expiration Date: N		.: Not Applicable				
Prepared By	losp	Sup 5 am Load Engineer	Signed I	3y <u>Lu</u> Kuldio	Sigh - Program	Lead Engineer (PLE)
Date	<u>5/18/98</u>		Date		5/18/18	
					•	
		<u> </u>				
<u></u>	C	ERTIFICATE	OF INSERVICE	INSPECT	ION	
I, the undersigned						iler and Pressure
Vessel Inspectors	and the Stat	te of Washingto	on and employed	by Arkwrig	iht Mutual Insi	urance Company
period / 2/18/9	7 to S	120198	and state to	the best of	f my knowled	's Report during the Ige and belief, the
Owner has perfor	med examińs	ations and tak	en corrective mi	easures de	escribed in ti	his Owner's Report
In accordance with By signing this co	'h the require artificate neit	ments of the / her the inspec	tor nor his emp	aon Al. Iover make	es anv warra	nty, expressed or
Implied, concerni	na the examl	Inations and c	orrective measu	res descri	bed in this C)wner's Report.
Furthermore, nelt	her the Inspe	ector nor his e	mployer shall be	e liable in a	any manner :	for any personal
Injury or property	aamage or a	1055 of any K	ina arising irom	or connec	,164 141111 4113	, inspection.
1 111.7	TI	75	<u>`</u>	TUM.	ע לצעדאנע	WETR ES
AN 11/CA	tor's Signature		Commissio	ns <u>/ 7/ / /</u> Natio	nal Board. State	USEB ES
						-
Date			_			

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ينذفون والإزاري وتترا FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES * PLAN NO. 2-1513 As required by the Provisions of the ASME Code Rules-Sulars Red Lion Rd., W. of Verree, Philadelphia J. E. Lonergan Company. Manufactured by_ Name and Address D-50D/S4 Order No. 509258 8/5/75 Contract Date National Board No .. Model No Bovee & Crail Const. Co. and General Energy 215-15190 Resources, Inc., Richland, Wash. 2. Manufactured For. Name and Address Washington Public Power, Hanford, Washington 99352 3. Owacr Name and Address Hanford #2 Jobsite, 12 Miles North of Richland, Washington 99352 Location of Plant -SLC-RV-29A Serial No. 509258-82-1 A-2346, No Rev. 5. Valve Identification_ _Drawing No._ Orifice Size 0.110 Pipe Size 10 2" Safety Relief Valve Tyje _____ Salety Rellef; Pliots Power Actuated Outlet Inlet loch Inch 1400 -* 200 6. Set Pressure (PSIG) Roted Arti 67.2 G.P.M. NSTIN @ 10 % Overpressure Stamped Capacity_ Blowdown (PSIG) 1 YYYYYY Outlet 2100 425 XXXXIIIXXValue llydrostatic Test (PSIG) Inlet -The material, design, construction and workmanship comply with ASME Code, Section III, Winter Addenda Addenda Date _12/31/74 2 1974 1555 Edition Cano No.-BOVEE & CRAIL / G.E.R.L. Q.A./Q.C. APPROVED Pressure Containing or Pressure Retaining Components Matcuial Specification - 77 75 Serial No. or 140 34 . Castings Identification Including Type or Grade D371-1 # ASNE SA-351 (CF8H) Type 316 Nody E5369-1 ASME SA-351 (CF8M)_Type 316 Bonnet of Abke. b. Bar Stock and Forgings WBG BR 215 15018 Support Rods. ASME SA-479 Type 316 02607 Nozile G8864 ASME SA-479 Type 316 Disc 02607 ASME SA-479 Type 316 Spring Washers ¢, ASME SA-479 Type 316 G9913 Adjusting Sciew G9938 **ASHE SA-479 Type 316** Spindle

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•Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 6%" x 11", (2) information in litems 1-2 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.

المستحاة تضبغ يتقجرون أرجح ومقاورين والمرجون والترجي والمستحد

Material Specification Siclal No. Identificatio Including Type or Grade lleat No. 00653 ASTN A-313 Type 316 c. Spring Studs - Cert. of Conformance ASHE SA-320, GR.38 Cert. of Conformance ASHE SA-194, GR. 8 Nuts Bolting e. Other Parts such as Pilot Components 02977 ASME SA-479 Type 316 Cap G.E.R.L 0.1. SIGH 2 DATE ** Blowdown not specified by code. We certify that the statements made in this report are correct. 19 ZE Signed J. E. LONERGAN CO N-1443 1979 Centificate of Authorization No._ Aug exnires . CERTIFICATE OF SHOP INSPECTION . I, the undersigned, holding a valid commission issued by the National Board of Doiler and Pressure Vessel Inspectors __nnd employed by Hartford Stm. Boiler I.&I. Co. Penne. and the State or Province of _ Hartford, Conn. have inspected the equipment described in this Data _ آه Report on Nec 15 _ 19, 15 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. Ŷ. 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. · WBG BR · 215 15018. Commissions (National Deard, State, Province and No.) Printed in U.S.A. 1773 This form (E42) is obtainable from the ASME, 345 E. 47th St., N.Y. 10017 بالموارية والمراجعة وأج .

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	WASHINGTON PUBLIC POWER	
5	SUPPLY SYSTEM	

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

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

Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)

Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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

(a) Certificate Of Authorization No.: N (e) Expiration Date: Not Applicable

(e) EXPIRATION DATE: Not Applicable

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4. Identification Of System: Standby Liquid Control (SLC) 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
SLC(2)-3S	WPPSS	SLC(2)-3S-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2
SLC-RV-29B	Lonergan	137180-1-2	N/A	N/A	1994	Replaced	Yes, Code Class 2
SLC-RV-29B	Lonergan	139407-1-2	N/A	N/A	1994	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced existing relief valve SLC-RV-29B. The replacement work was performed as follows: 1) Removed existing relief valve SLC-RV-29B, Serial No 137180-1-2.

2) Performed VT-3 visual examination on the existing studs for the relief valve outlet bolted joint. VT-3 visual examination results acceptable.

3) Performed VT-3 visual examination on the existing nuts for the relief valve outlet bolted joint. VT-3 visual examination results acceptable.

4) Installed replacement relief valve SLC-RV-29B, Serial No 139407-1-2.

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5) Reinstalled VT-3 visually examined existing studs for relief valve outlet bolted joint.

6) Reinstalled VT-3 visually examined existing nuts for relief valve outlet bolted joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve outlet bolted joint. No evidence of leakage during the pressure test.

NOTES-

1) ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda for the Standby Liquid Control (SLC) System. 2) ASME Section III, Code Class 2, 1974 Edition with Winter 1974 Addenda for the replacement relief valve SLC-RV-29B, Serial No 139407-1-2.

Date: 05/18/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1514

SUPPLY SYSTEM	PLAN No 2-1514
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR	REPLACEMENTS (Back)
	rating Pressure X Other None Temperature: 71.8° F perature: 150° ⁰ F
emarks: 1) See attached NV-1 Code Data Report for the replacement relief valve s component design pressure and temperature is for the relief valve outlet bolted joint p	SLC-RV-29B, Serial No 139407-1-2. piping system.
·	· · ·
CERTIFICATE OF COMPLIAN	ICE
Ne certify that the statements made in this Owner's Report are co	orrect and this replacement conforms
o the rules of the ASME Code, Section XI.	
Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	
Expiration Date: Not Applicable	
Milding Singh Stand Bu	Sudah Rich
Prepared By Julan Signed By Signed By	Kuldip Singh - Program Lead Engineer (PLE)
Date	5118198
•	······
CERTIFICATE OF INSERVICE INSE	PECTION
and the second	Nexat Record of Rollow and Processo
l, the undersigned, holding a valid commission issued by the Nat Vessel Inspectors and the State of Washington and employed by A	Arkwright Mutual Insurance Company
of Waltham, Massachusetts have inspected the components describ	bed in this Owner's Report during the
period <u>12/11/17</u> to <u>37/20/98</u> and state to the b Owner has performed examinations and taken corrective measur	est of my knowledge and bellef, the
Owner has performed eveningtions and taken corrective measur	vi
owner has periorned examinations and uncerconcedure include.	
in accordance with the requirements of the ASME Code, Section . By signing this certificate neither the inspector nor his employer	makes any warranty, expressed or
in accordance with the requirements of the ASME Code, Section By signing this certificate neither the inspector nor his employer implied, concerning the examinations and corrective measures d	makes any warranty, expressed or lescribed in this Owner's Report.
in accordance with the requirements of the ASME Code, Section By signing this certificate neither the inspector nor his employer implied, concerning the examinations and corrective measures d Furthermore, neither the inspector nor his employer shall be liab	makes any warranty, expressed or lescribed in this Owner's Report. le in any manner for any personal
in accordance with the requirements of the ASME Code, Section By signing this certificate neither the inspector nor his employer implied, concerning the examinations and corrective measures d Furthermore, neither the inspector nor his employer shall be liab	makes any warranty, expressed or lescribed in this Owner's Report. le in any manner for any personal
in accordance with the requirements of the ASME Code, Section By signing this certificate neither the Inspector nor his employer implied, concerning the examinations and corrective measures d Furthermore, neither the Inspector nor his employer shall be liab injury or property damage or a loss of any kind arising from or co	makes any warranty, expressed or described in this Owner's Report. ole in any manner for any personal onnected with this inspection.
in accordance with the requirements of the ASME Code, Section By signing this certificate neither the Inspector nor his employer implied, concerning the examinations and corrective measures d Furthermore, neither the Inspector nor his employer shall be liab injury or property damage or a loss of any kind arising from or co	makes any warranty, expressed or lescribed in this Owner's Report. le in any manner for any personal
in accordance with the requirements of the ASME Code, Section By signing this certificate neither the inspector nor his employer implied, concerning the examinations and corrective measures d Furthermore, neither the inspector nor his employer shall be liab injury or property damage or a loss of any kind arising from or co	The makes any warranty, expressed or described in this Owner's Report. The in any manner for any personal connected with this inspection.

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	ERTIFICATE I	HOLDERS' DATA	REPORT FOR PRESSU	JRE OR VACUUM	NO. 2-1514: RELIEF VALVES*
•	As Require	d by the Provision	ns of the ASME Code, S	ection III, Division 1	•Pg, 1 of2
i	Kimle	a Inductorian In			· · · ·
Manufactured and control of the second se	entified by Loner	<u>gan Valve Divisi</u>	Ion, 8222 Bluffton Road	Fort Wayne, IN 40 Certificate Holders	0002
			(name and address of Purch		Richland, WA 99352-0968
Location of installation	on <u>Washingtor</u>	<u>Public_Power_S</u>	Ipply System, WNP-2 OP	WHS Complex, Whse	Richland, WA 99352
. Valve ND50CS421-D (model no., ser	G1400 Orifice	size <u>.394</u> (in.)	Nom. inlet size	_ <u>1''</u> Outlet	size2'' (in.)
. ASME Code, Section	a III, Division 1: _	1974 (edition)	Winter 1974 (addenda date)	2(class)	Code Case no.)
. Type <u>Spring</u>		1400	$N/A = 100^{\circ} F$	2100	at30 °F
(spring, pilot or por 13940	wer operated) (se)7-1-1 through	1400 t pressure, psig) (t	blowdown, psi) (rated temp	.) (hydro. test, psig, ini	let)
Identification 13940)7-1-2	N/A	<u>A940014 Rev. 0</u>	N/A	
(Cert.	. Holder's senal no.)	· (CRN)	(drawing no.)	(Nat'l. 8d. no.)	(year built)
. Control ring settings	N/A				,
• •		SLC-RV-	298, SIN 139	407-1-2	
Pressure retaining ite	ems:			Kulang Sur at 1. Spec. 5/10/	6
-		•		Find Fill	ዓሎ
	-	Serial No. or	, M	at'l. Spec., Spec.	Tensile
		Identification		g Type or Grade	Strength
Body		<u>S6601-1, -2</u>	SA_351_CE8M		<u>70_ksi</u>
Bonnet &XXXXX		<u>T4795-5, -6</u>	SA-351_CE8M		<u>_70_ksi</u>
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Plug	18450 / 73028	SA-479_TY316		<u>75_ksi</u>
Nozzie		703685	SA-479 TY316	·	<u>75 ksi</u>
Disk		97477	SA-479 TY316		<u></u>
Spring XXXXXXXX Ste		31828	SA-479 TY316		<u>75_ksi</u>
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-	H8506-4 -12	SA-351_CE8M		
KKWX Gag Plug		30091	SA-479 TY316		<u>75 ksi</u>
		20330 ·	ASTM A-313 TY310	i	
ting				۲	<u>75_ksi</u>
Fing BEKKM Ring Pin S		30091	<u>SA=479_TY316</u>		
KXXXXX Ring Pin S	creu	30091 704631	<u>SA=479_TY316</u> <u>SA=479_TY316</u>		75_ksi
RANKS Ring Pin S RANGERSON Sten	Scrøs	704631		· · · · · · · · · · · · · · · · · · ·	<u>75_ksi</u>
WANKS Ring Pin S RXXXXXXXX Sten	Scrøs	704631	SA-479 TY316	ure as certified by the N	lational Board _01/25/85
KXXXXXX Ring Pin S KXXXXXXXX Sten	Scrøs	704631	SA-479 TY316	ure as certified by the N	75_ks1 ational Board _01/25/85 (date)
RENEWING Capacity 6	500 (127 GE (steem	704631 M) or fluid, lb/hr)	SA=479: T¥316 @ _10% overpress	•	lational Board <u>01/25/85</u> (date)
Remarks: <u>* Sprin</u>	i) i3,500 (127 GE (steam ag exempt from	704631 M) or Huid, Hu/hui n material requin	SA=479: TY316 @ _10% overpress	•	lational Board <u>01/25/85</u> (date)
Remarks: <u>* Sprin</u> Pressure Retaini	Screw 3) 3,500 (127 GE (steam ag exempt from ang Items: (Co	704631 M) or Huid, Ho/hy) n material requin pontinued)	SA=479 TY316 Overpress overpress <u>cements of NC-2000 but</u>	•	rements of NC-3595.
Remarks: <u>* Sprin</u> <u>Compression Scree</u>	Screw 3) 3,500 (127 GE (steam ag exempt from ang Items: (Co aw	704631 M) or Huid, Ho/hy) <u>n material requin</u> <u>ontinued)</u> 700737	SA=479 TY316 	•	rements of NC-3595.
Remarks: <u>* Sprin</u> <u>Compression Screeter</u>	Screw 3,500 (127 GF (steam ag exempt from ang Items: (Co	704631 M) or fluid, Eb/Tw1 <u>n material requin</u> <u>mtimued</u>) 700737 8079541/N4C	SA-479 TY316 	•	rements of NC-3595. 75 ksi N/A
Remarks: <u>* Sprin</u> <u>Compression Scree</u>	Screw 3,500 (127 GF (steam ag exempt from ang Items: (Co	704631 M) or Huid, Ho/hy) <u>n material requin</u> <u>ontinued)</u> 700737	SA=479 TY316 	•	rements of NC-3595.
RENALTS Ring Pin S RANGERATING Relieving capacity <u>6</u> Relieving capacity <u>6</u> Remarks: <u>* Sprin</u> <u>Pressure Retaini</u> <u>Compression Scree</u> <u>Heavy Hex Nut</u> <u>Stud</u>	Screw 3,500 (127 GF (steam ag exempt from ang Items: (Co	704631 <u>M)</u> or fluid, Ex/fw1 <u>material requin</u> <u>mtimued</u>) 700737 8079541/N4C 8866612	SA=479 TY316 	•	rements of NC-3595. 75 ksi N/A
RENALS Ring Pin S RANGERATING Renarks: <u>* Sprin</u> Pressure Retaini <u>Compression Scree</u> <u>Heavy Hex Nut</u> <u>Stud</u>	Screw 3,500 (127 GF (steam ag exempt from ang Items: (Co sw	704631 <u>M)</u> or fluid, Eb/fw1 <u>n material requin</u> <u>mtimued</u>) 700737 8079541/N4C 8866612 CERT	SA=479 TY316 	neets designarequin	lational Board _01/25/85 (dete) cements of NC-3595. 75 ksi N/A 125 ksi
Remarks: <u>* Sprin</u> Pressure Retainin Compression Scree Heavy Hex Nut	i) i3,500 (127 GF (steam ing exempt from ing Items: (Co w fied byD.	704631 <u>M)</u> or fluid, Ex/fw1 <u>n material requin</u> <u>mtimued</u>) 700737 8079541/N4C 8866612 CERT Murphy	SA=479 TY316 	neets designarequin	Pational Board _01/25/85
RENALS Ring Pin S RANGERSING Stern (Continued below Relieving capacity _6 Remarks: <u>* Sprin</u> <u>Pressure Retainit</u> <u>Compression Scree</u> <u>Heavy Hex Nut</u> <u>Stud</u> ign Specification certi	i) i3,500 (127 GF (steam ing exempt from ing Items: (Co w fied byD.	704631 <u>M)</u> or fluid, Eb/fw1 <u>n material requin</u> <u>mtimued</u>) 700737 8079541/N4C 8866612 CERT	SA=479 TY316 	neets designarequin	Pational Board _01/25/85 (date) cements of NC-3595. 75 ksi N/A 125 ksi Reg. no12542
Remarks: <u>* Sprin</u> Pressure Retaini Compression Scree Heavy Hex Nut Stud	i) i3,500 (127 GF (steam ing exempt from ing Items: (Co w fied byD.	704631 M) or fluid, lb/hy) <u>n material requin</u> <u>ontimued</u>) 700737 8079541/N4C 8866612 CERT Murphy N/A	SA=479 TY316 	neets designarequin	Pational Board _01/25/85
KKKS Ring Pin S KKS Ring Pin S KRS Ster (Continued below Relieving capacity _6 Remarks: <u>* Sprim</u> <u>Pressure Retaini</u> <u>Compression Scree</u> <u>Heavy Hex Nut</u> Stud Stud	i) i3,500 (127 GF (steam ag exempt from ag Items: (Co sw fied byD.	704631 M) or fluid, lb/hr) <u>n material requin</u> <u>ontimued</u>) 700737 8079541/N4C 8866612 CERTIN Murphy N/A CERTIN	SA-479 TY316 	neets designarequin	Pational Board
KKKKS Ring Pin S KKKS Ring Pin S KKKS Ring Pin S KRENE State (Continued below Relieving capacity 6 Remarks: <u>* Sprin</u> <u>Pressure Retainit</u> <u>Compression Screeners</u> <u>Heavy Hex Nut</u> Stud Stud Stud Stud certify that the statem	i) i3,500 (127 GF (steam ag exempt from ag Items: (Co sw fied byD.	704631 M) or fluid, lb/hr) <u>n material requin</u> <u>ontimued</u>) 700737 8079541/N4C 8866612 CERTIN Murphy N/A CERTIN	SA=479 TY316 	neets designarequin	Pational Board01/25/85
KKKS Ring Pin S KKSS Ring Pin S KKSS Ring Pin S Kater (Continued below Relieving capacity _6 Remarks: <u>* Sprin</u> <u>Pressure Retainit</u> <u>Compression Scree</u> <u>Heavy Hex Nut</u> Stud ign Specification certified by certify that the statem Division 1.	Screw 3,500 (127 GF (steam) ag exempt from ang Items: (Co w fied byD. fied byD. ments made in this station No	704631 M) or fluid, lb/hv) n material requin patimued) 700737 8079541/N4C 8866612 CERTIN Murphy N/A CERTIN s report are correct an 2853	SA=479: TY316 	neets designarequin	Pational Board _01/25/85
Rink Kis Ring Pin S Remarks: Sprin Pressure Retaini Compression Screet Heavy Hex Nut Stud sign Specification certified by certify that the statement Division 1.	Screw 1) 13,500 (127 GF Istesm ag exempt from ag Items: (Co SM fied by fied by fied by fied by tents made in this sation No Kuruk	704631 M) or fluid, lb/hv) <u>material requin</u> <u>patimued</u>) 700737 8079541/N4C 8866612 CERTIN Murphy N/A CERTIN s report are correct an 2853 cle Industries, 1	SA=479 TY316 	neets designarequin	Pational Board _01/25/85
Remarks: <u>* Sprin</u> Pressure Retaini Compression Scree <u>Heavy Hex Nut</u> Stud	Screw 1) 13,500 (127 GF Istesm ag exempt from ag Items: (Co SM fied by fied by fied by fied by tents made in this sation No Kuruk	704631 M) or fluid, lb/hv) n material requin patimued) 700737 8079541/N4C 8866612 CERTIN Murphy N/A CERTIN s report are correct an 2853	SA=479 TY316 	neets designarequin	Pational Board _01/25/85

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This form (E00042) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

بي. 11-17:

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×	FORM NV-1 (Back	- Pg. 2 of _2]
•	•.	139407–1–1 thru 139407–1–2
, ng		Certificate Holder's Serial No. 139407-1-2
	CERTIFICATE O	F INSPECTION
I, the undersigned, hold of <u>Michigan</u>	ling a valid commission issued by the National Bo	pard of Boiler and Pressure Vessel Inspectors and the State or Province
	Hartford, CT	have inspected the valve described in this Data Report of
4U9LIST 4, 1944	and state that to the best of my knowledge and	belief, the Certificate Holder has constructed this valve in accordance-
with the ASME Code, S	ection III. Division 1.	
		ny warranty, expressed or implied, concerning the component described
2		hall be liable in any manner for any personal injury or property damage or
	g from or connected with this inspection.	
_		
Date 8-4-94 Si	aned I Sig Karl ! Me,	Commissions N137444(N13/14), Tord 840
	(Authorized Inspector)	(Net'i, Bd. (incl. endorsements) and state or prov. and no.)
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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 System Emergency Core Cooling System (ECCS) Suction Strainers For Pump RHR-P-2A
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 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
RHR-ST-5A	PCI	RHR-ST-5A	N/A	N/A	1998	Replacement	No, Codo Class 2
RHR-ST-5B	PCI	RHR-ST-5B	N/A	N/A	1998	Replacement	No, Codo Class 2

7. Description Of Work Performed: Replaced the existing Emergency Core Cooling System (ECCS) suction strainers RHR-ST-5A and RHR-ST-5B for RHR-P-2A pump suction piping. The replacement work was performed as follows:

- 1) Removed existing suction strainer RHR-ST-5A.
- 2) Installed new replacement suction strainer RHR-ST-5A.
- 3) Installed new replacement studs for suction strainer RHR-ST-5A to pipe flange bolted joint.
- 4) Installed new replacement nuts for suction strainer RHR-ST-5A to pipe flange bolted joint.
- 5) Removed existing suction strainer RHR-ST-5B.
- 6) Installed new replacement suction strainer RHR-ST-5B.
- 7) Installed new replacement studs for suction strainer RHR-ST-5B to pipe flange bolted joint.
- 8) Installed new replacement nuts for suction strainer RHR-ST-5B to pipe flange bolted joint.

This Owner's Data Report covers only the make-up of bolting material between the non-Code suction strainers and the Code Class 2 pump suction piping.

NOTES -

 The existing ASME Code Stamped piping system in which the new replacement Emergency Core Cooling System (ECCS) suction strainers RHR-ST-5A and RHR-ST-5B for RHR-P-2A pump suction piping were installed is Containment System, Serial No 16713 CSM. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
 The new replacement Emergency Core Cooling Spray (ECCS) suction strainers are non-Code items designed and fabricated in accordance with ASME Section III, Code Class 2, 1977 Edition with Summer 1977 Addenda requirements with the following exceptions as stated in Supply System's Procurement Specification No 12023: No ASME Code stamping, no ASME Code Data Report and no hydrostatic testing.

The new replacement studs and nuts comply with Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
 The jurisdictional boundary between ASME Section III, Code Class 2 pump suction piping and the non-Code suction strainers is at the bolted flanged joints.

Date: 06/10/98 Sheet: 1 of 1 Unit: WNP-2

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) Tests Conducted: Hydrostatic Paig Non Test Pressure: Paig Test Temperature: ° F Component Design Pressure: Paig Test Temperature: ° F Component Design Pressure: Paig Temperature: ° F 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 Certificate of Authorization No: Not Applicable Prepared By Luce: Signed By Kuddp Singh - Program Lead Engineer (PLE) Date 6 [10] % In additional Board of Boller and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Watham, Massachusetts have Inspected the components 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 employed by Arkwright Mutual I	• u	PLAN No 2-15	;1:
Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X Nor Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F 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 Certificate Of Authorization No: Not Applicable Expiration Date: Not Applicable Prepared By Signed By Kuidip Singh - Frequent Lead Engineer (PLE) 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 Antwight Mutual insurance Company of Waltham, Massachusetts have Inspected the components described in this Owner's Report during the period Versel Inspectors and the State of Washington and employed by the Matunal Board of Boller and Pressure Vessel Inspector the components described in this Owner's Report during the period Versel Inspector the state of Washington and employed by the National Board of Boller and Pressure Vessel Inspector the state of Washington and employed by the National Board of Boller and Pressure Vessel Inspectors and the State of Washington and employed b	F	DRM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
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 Kuidip Singh - Program Lead Engineer (PLE) Kuidip Singh - Program Lead Engineer (PLE) 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 Mutual Insurance Company of Waitham, Massachusetts have Inspected the components described in this Owner's Report during the period Owner this 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.	•	ed: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: ° F	ne
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 Support Kuldip Singh - Program Lead Engineer (PLE) Date 61098 Date	Remarks: None		
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 Julic Market Kuldip Singh - Program Lead Engineer (PLE) Date 61098			
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 Julic Market Kuldip Singh - Program Lead Engineer (PLE) Date 61098	•	• • • • • • • • • • • • • • • • • • •	
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 Julic Market Kuldip Singh - Program Lead Engineer (PLE) Date 61098		· · · · · · · · · · · · · · · · · · ·	٦
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		CERTIFICATE OF COMPLIANCE	ļ
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 of Watham, Massachusetts have inspected the components described in this Owner's Report during the period	to the rules of Type Code S Certificate Of Expiration Da Prepared By	f the ASME Code, Section XI. ymbol Stamp: Not Applicable Authorization No.: Not Applicable ite: Not Applicable Signed By Unioup, Euch Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE)	
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 of Waltham, Massachusetts have Inspected the components described in this Owner's Report during the period <u>1/22/21</u> to <u>1/22/21</u> 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.			ר
injury or property damage or a loss of any kind arising from or connected with this inspection.	Vessel Inspe of Waltham, M period Owner has p In accordance By signing the Implied, conte Furthermore,	gned, holding a valid commission issued by the National Board of Boller and Pressure ctors and the State of Washington and employed by Arkwright Mutual Insurance Company assachusetts have Inspected the components described in this Owner's Report during the deformed examinations and taken corrective measures described in this Owner's Report e with the requirements of the ASME Code, Section XI. Its certificate neither the Inspector nor his employer makes any warranty, expressed or terning the examinations and corrective measures described in this Owner's Report. neither the Inspector nor his employer shall be liable in any manner for any personal	
Date <u>L/15/98</u> Commissions <u>74/10/7416 wiss 75</u> National Board, State, and Endorsements	<u></u> Date <u> </u>		

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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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 System Emergency Core Cooling System (ECCS) Suction Strainers For Pump RHR-P-28
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 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
RHR-ST-3A	PCI	RHR-ST-3A	N/A	N/A	1998	Replacement	No, Code Class 2
RHR-ST-3B	PCI	RHR-ST-3B	N/A	N/A	1998	Replacement	No, Code Class 2

7. Description Of Work Performed: Replaced the existing Emergency Core Cooling System (ECCS) suction strainers RHR-ST-3A and RHR-ST-3B for RHR-P-2B pump suction piping. The replacement work was performed as follows:

- 1) Removed existing suction strainer RHR-ST-3A.
- 2) Installed new replacement suction strainer RHR-ST-3A.
- 3) Installed new replacement studs for suction strainer RHR-ST-3A to pipe flange bolted joint.
- 4) Installed new replacement nuts for suction strainer RHR-ST-3A to pipe flange bolted joint.
- 5) Removed existing suction strainer RHR-ST-3B.
- 6) Installed new replacement suction strainer RHR-ST-3B.
- 7) Installed new replacement studs for suction strainer RHR-ST-3B to pipe flange bolted joint.
- 8) Installed new replacement nuts for suction strainer RHR-ST-3B to pipe flange bolted joint.

This Owner's Data Report covers only the make-up of bolting material between the non-Code suction strainers and the Code Class 2 pump suction piping.

NOTES -

 The existing ASME Code Stamped piping system in which the new replacement Emergency Core Cooling System (ECCS) suction strainers RHR-ST-3A and RHR-ST-3B for RHR-P-2B pump suction piping were installed is Containment System, Serial No 16713 CSM. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
 The new replacement Emergency Core Cooling Spray (ECCS) suction strainers are non-Code items designed and fabricated in accordance with ASME Section III, Code Class 2, 1977 Edition with Summer 1977 Addenda requirements with the following exceptions as stated in Supply System's Procurement Specification No 12023: No ASME Code stamping, no ASME Code Data Report and no hydrostatic testing.

3) The new replacement studs and nuts comply with Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
4) The jurisdictional boundary between ASME Section III, Code Class 2 pump suction piping and the non-Code suction strainers is at the bolted flanged joints.

Date: 06/10/98 Sheet: 1 of 1 Unit: WNP-2

	6	KASIUNGTON PUBLIC PORER	1	PLAN No 2-
	5	SUPPLY SYSTEM	l	
FO	RM NIS-2 OWNER'S REPO	ORT FOR REPAIRS OR R	EPLACEMENTS (Ba	nck)
rests Conducte	d: Hydrostatic Pneun Test Pressure: Psig Component Design Press	Test Te	ting Pressure emperature: ° F rature: ° F	Other 🔀 I
Remarks: None	Component Design 1000			¢.
n <i>emar</i> x5, 1000				•
				•
B.				*
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		<u> </u>	·····	· · ·
	CERTI	FICATE OF COMPLIANC	E , , ,	. 1
We certify that	t the statements made in th	is Owner's Report are con	rect and this replaceme	ent conforms
to the rules of	the ASME Code, Section X	1.	•	
	mbol Stamp: Not Applicable	Lia	-	•
Expiration Date	Authorization No.: Not Applica		· · ·	•
		Л	, 3A O12	· · · · · ,
Prepared By_	Vuldip Sup	Signed By <u>4</u>	unp sing	<u>56</u>
	Kuldip Singh - Program Load Engi		Idip Singh - Program Lead	Engineer (PLE)
Date	6/10/98	Date	6/10/98	· · · ·
	•			
	CERTIFICA	TE OF INSERVICE INSPE	CTION	
				• • •
	ned, holding a valid comm	ission issued by the Natio	nal Board of Boiler a	nd Pressure
I, the undersig	tors and the State of Washin	ngton ana empioyea by Afk	d in this Owner's Re	e Company port during th
Vessel Inspec	ecachusette have Incherted	the components describe		and to all at the
Vessel Inspect of Waltham, Ma period	198 to 6/15/18	the components describe and state to the bes	t of my knowledge a	na peller, the
Vessel Inspec of Waltham, Ma period <u>4</u> /2 Owner has pe	rformed examinations and	and state to the bes taken corrective measures	t of my knowledge a s described in this O	na beller, the wne <mark>r's</mark> Repor
Vessel Inspec of Waltham, Ma period ///// Owner has per in accordance	rformed examinations and with the requirements of t	taken corrective measures taken corrective measures he ASME Code, Section XI	st of my knowledge a s described in this O	wner's Repor
Vessel Inspect of Waltham, Ma period Owner has per in accordance By signing this	<i>"/ // to_6//3//8</i> rformed examinations and with the requirements of t is certificate neither the ins	and state to the bes taken corrective measures he ASME Code, Section XI pector nor his employer m	st of my knowledge a s described in this O akes any warranty, e	wner's Repoi
Vessel Inspect of Waltham, Ma period <u>4</u> Owner has per in accordance By signing this Implied, conce	<i>"////////////////////////////////////</i>	taken corrective measures taken corrective measures he ASME Code, Section Xi pector nor his employer m d corrective measures des	st of my knowledge a s described in this O akes any warranty, e scribed in this Owned	wner's Repor expressed or r's Report.
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Vessel Inspec of Waltham, Ma period <u>4</u> Owner has pe in accordance By signing thi implied, conce Furthermore.	<i>"////////////////////////////////////</i>	and state to the bes taken corrective measures he ASME Code, Section XI pector nor his employer m d corrective measures des is employer shall be liable	it of my knowledge a s described in this O l akes any warranty, e scribed in this Owne in any manner for ai	wner's Repor expressed or r's Report. ny personal
Vessel Inspec of Waltham, Ma period <u>4</u> Owner has pe in accordance By signing thi implied, conce Furthermore.	<i>k formed</i> examinations and with the requirements of the s certificate neither the inspector of the erning the examinations an neither the inspector nor his	and state to the bes taken corrective measures he ASME Code, Section Xi pector nor his employer m d corrective measures des is employer shall be liable by kind arising from or con	t of my knowledge a s described in this O hakes any warranty, e scribed in this Owned in any manner for al nected with this insp	wner's Repor expressed or r's Report. ny personal pection.
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Vessel Inspec of Waltham, Ma period <u>4</u> Owner has per in accordance By signing thi Implied, conce Furthermore, Injury or prop	to <u>6/13/18</u> rformed examinations and with the requirements of t is certificate neither the Ins erning the examinations an neither the Inspector nor his erty damage or a loss of an	and state to the bes taken corrective measures he ASME Code, Section XI pector nor his employer m d corrective measures des is employer shall be liable by kind arising from or con Commissions	t of my knowledge a described in this O hakes any warranty, o scribed in this Owner in any manner for a nected with this insp INCW/748C w	wner's Repor expressed or r's Report. ny personal pection. FTB 25
Vessel Inspec of Waltham, Ma period <u>4</u> Owner has per in accordance By signing thi Implied, conce Furthermore, Injury or prop	to <u>6/13/18</u> rformed examinations and with the requirements of t is certificate neither the Ins erning the examinations an neither the Inspector nor his erty damage or a loss of an	and state to the bes taken corrective measures he ASME Code, Section XI pector nor his employer m d corrective measures des is employer shall be liable by kind arising from or con Commissions	t of my knowledge a described in this O hakes any warranty, o scribed in this Owner in any manner for a nected with this insp INCW/748C w	wner's Repor expressed or r's Report. ny personal pection. FTB 25

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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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 System Emergency Core Cooling System (ECCS) Suction Strainers For Pump RHR-P-2C
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 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
RHR-ST-4A RHR-ST-4B	PCI PCI	RHR-ST-4A RHR-ST-4B	N/A N/A	N/A N/A	1998 1998	Replacement Replacement	No, Code Class 2 No, Code Class 2

7. Description Of Work Performed: Replaced the existing Emergency Core Cooling System (ECCS) suction strainers RHR-ST-4A and RHR-ST-4B for RHR-P-2C pump suction piping. The replacement work was performed as follows:

- 1) Removed existing suction strainer RHR-ST-4A.
- 2) Installed new replacement suction strainer RHR-ST-4A.
- 3) Installed new replacement studs for suction strainer RHR-ST-4A to pipe flange bolted joint.
- 4) Installed new replacement nuts for suction strainer RHR-ST-4A to pipe flange bolted joint.
- 5) Removed existing suction strainer RHR-ST-4B.
- 6) Installed new replacement suction strainer RHR-ST-4B.
- 7) Installed new replacement studs for suction strainer RHR-ST-4B to pipe flange bolted joint.
- 8) Installed new replacement nuts for suction strainer RHR-ST-4B to pipe flange bolted joint.

This Owner's Data Report covers only the make-up of bolting material between the non-Code suction strainers and the Code Class 2 pump suction piping.

NOTES -

 The existing ASME Code Stamped piping system in which the new replacement Emergency Core Cooling System (ECCS) suction strainers RHR-ST-4A and RHR-ST-4B for RHR-P-2C pump suction piping were installed is Containment System, Serial No 16713 CSM. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
 The new replacement Emergency Core Cooling Spray (ECCS) suction strainers are non-Code items designed and fabricated in accordance with ASME Section III, Code Class 2, 1977 Edition with Summer 1977 Addenda requirements with the following exceptions as stated in Supply System's Procurement Specification No 12023: No ASME Code stamping, no ASME Code Data Report and no hydrostatic testing.

The new replacement studs and nuts comply with Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
 The jurisdictional boundary between ASME Section III, Code Class 2 pump suction piping and the non-Code suction strainers is at the bolted flanged joints.

Date: 06/10/98 Sheet: 1 of 1 Unit: WNP-2

		SILINGTON FUBLIC FOR		. ₽L	AN No 2-151
FORM	NIS-2 OWNER'S REPORT	FOR REPAIRS	OR REPLAC	EMENTS (Back)	•
Те	lydrostatic Pneumati est Pressure: Psig omponent Design Pressure	<u> </u>	Operating Pres Test Temperati Temperature: °	ure:°F	er 🔀 None
. Remarks: None			•		•
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	Â.		•	•	
		μ.		•	
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			<u></u>		
	CERTIFIC	ATE OF COMPL	IANCE	*	
	statements made in this O	wner's Report ai	e correct and	this replacement c	onforms
	ASME Code, Section XI.				•
Certificate Of Auti	norization No.: Not Applicable				
Expiration Date: N	ot Applicable			· · ·	.]
Prepared By	waip Such	Signed By	Vuldi	12 Quines	
	ip Singh - Program Lead Engineer			Program Lead Engli	neer (PLE)
Date	6/10/98	Date	6	10198	
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L	•		,	;	
		4 		······································	
Vessel Inspectors of Waltham, Massac period <u>4/12/9</u> Owner has perforr in accordance with By signing this ce Implied, concernin Furthermore, neith	CERTIFICATE C and the State of Washington husetts have inspected the to <u>constant</u> the med examinations and take the requirements of the A rtificate neither the inspect of the examinations and co her the inspector nor his en damage or a loss of any kin	on issued by the and employed b components des and state to th n corrective mea SME Code, Secti or nor his emplo rrective measure ployer shall be i	National Board by Arkwright Mu cribed in this e best of my k sures describ fon XI. yer makes any es described ir lable in any m r connected w	tual Insurance Co Owner's Report nowledge and b ed in this Owner warranty, expre- this Owner's Re anner for any pe	mpany during the ellef, the 's Report essed or eport. ersonal
Inspect	or's Signature		National Boa	rd, State, and Endors	sements
Date 1/15/	78	_		*	
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

Date: 06/10/98 Sheet: 1 of 1 Unit: WNP-2

- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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 System Emergency Core Cooling System (ECCS) Suction Strainers For Pump LPCS-P-1
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 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 Bullt	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
LPCS-ST-2	PCI	lpcs-st-2 .	NA	NA	1998	Replacement	No, Code Class 2
LPCS-ST-3	PCI	lpcs-st-3	NA	NA	1998	Replacement	No, Code Class 2

7. Description Of Work Performed: Replaced the existing Emergency Core Cooling System (ECCS) suction strainers LPCS-ST-2 and LPCS-ST-3 for LPCS-P-1 pump suction piping. The replacement work was performed as follows:

- 1) Removed existing suction strainer LPCS-ST-2.
- Installed new replacement suction strainer LPCS-ST-2.
- 3) Installed new replacement studs for suction strainer LPCS-ST-2 to pipe flange bolted joint.
- 4) Installed new replacement nuts for suction strainer LPCS-ST-2 to pipe flange bolted joint,
- 5) Removed existing suction strainer LPCS-ST-3,
- 6) Installed new replacement suction strainer LPCS-ST-3.
- 7) Installed new replacement studs for suction strainer LPCS-ST-3 to pipe flange bolted joint.
- 8) Installed new replacement nuts for suction strainer LPCS-ST-3 to pipe flange bolted joint.

This Owner's Data Report covers only the make-up of bolting material between the non-Code suction strainers and the Code Class 2 pump suction piping.

NOTES -

 The existing ASME Code Stamped piping system in which the new replacement Emergency Core Cooling System (ECCS) suction strainers LPCS-ST-2 and LPCS-ST-3 for LPCS-P-1 pump suction piping were installed is Containment System, Serial No 16713 CSM. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
 The new replacement Emergency Core Cooling Spray (ECCS) suction strainers are non-Code items designed and fabricated in accordance with ASME Section III, Code Class 2, 1977 Edition with Summer 1977 Addenda requirements with the following exceptions as stated in Supply System's Procurement Specification No 12023: No ASME Code stamping, no ASME Code Data Report and no hydrostatic testing.

3) The new replacement studs and nuts comply with Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
 4) The jurisdictional boundary between ASME Section III, Code Class 2 pump suction piping and the non-Code suction strainers is at the bolted flanged joints.

	PLAN No 2-15
`	SUPPLY SYSTEM
FO	RM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
Tests Conducte	d: Hydrostatic Pneumatic Nominal Operating Pressure Other X Nor Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F
Remarks: None	
	•
· · · · · · · · · · · · · · · · · · ·	CERTIFICATE OF COMPLIANCE
	the statements made in this Owner's Report are correct and this replacement conforms
Type Code Syl Certificate Of A Expiration Dat Prepared By	the ASME Code, Section XI. nbol Stamp: Not Applicable Authorization No.: Not Applicable e: Not Applicable Yuland Signed By Kuldip Singh - Program Lead Engineer (PLE) 6 [10] 2 B Date
Vessel Inspect	CERTIFICATE OF INSERVICE INSPECTION ned, holding a valid commission issued by the National Board of Boller and Pressure fors and the State of Washington and employed by Arkwright Mutual Insurance Company assachusetts have inspected the components described in this Owner's Report during the
period <u>7/77</u> Owner has per in accordance By signing this implied, conce	to <u>4/15779</u> and state to the best of my knowledge and belief, the formed examinations and taken corrective measures described in this Owner's Report with the requirements of the ASME Code, Section XI. s certificate neither the inspector nor his employer makes any warranty, expressed or wring the examinations and corrective measures described in this Owner's Report.
Furthermore. r	neither the inspector nor his employer shall be liable in any manner for any personal erty damage or a loss of any kind arising from or connected with this inspection.
In	Spector's Signature Commissions The W/THE NFS D SS National Board, State, and Endorsements
Date <u>6//3</u>	/ 98

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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
 - (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 System Emergency Core Cooling System (ECCS) Suction Strainers For Pump HPCS-P-1
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 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 Bullt	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
HPCS-ST-2	PCI	HPCS-ST-2	N/A	N/A	1998	Replacement -	No, Code Class 2
HPCS-ST-3	PCI	HPCS-ST-3	N/A	N/A	1998	Replacement.	No, Code Class 2

7. Description Of Work Performed: Replaced the existing Emergency Core Cooling System (ECCS) suction strainers HPCS-ST-2 and HPCS-ST-3 for HPCS-P-1 pump suction piping. The replacement work was performed as follows:

- 1) Removed existing suction strainer HPCS-ST-2.
- 2) Installed new replacement suction strainer HPCS-ST-2.
- 3) Installed new replacement studs for suction strainer HPCS-ST-2 to pipe flange bolted joint.
- 4) Installed new replacement nuts for suction strainer HPCS-ST-2 to pipe flange bolted joint.
- 5) Removed existing suction strainer HPCS-ST-3.
- 6) Installed new replacement suction strainer HPCS-ST-3.
- 7) Installed new replacement studs for suction strainer HPCS-ST-3 to pipe flange bolted joint.
- 8) Installed new replacement nuts for suction strainer HPCS-ST-3 to pipe flange bolted joint.

This Owner's Data Report covers only the make-up of bolting material between the non-Code suction strainers and the Code Class 2 pump suction piping.

NOTES -

 The existing ASME Code Stamped piping system in which the new replacement Emergency Core Cooling System (ECCS) suction strainers HPCS-ST-2 and HPCS-ST-3 for HPCS-P-1 pump suction piping were installed is Containment System, Serial No 16713 CSM. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
 The new replacement Emergency Core Cooling Spray (ECCS) suction strainers are non-Code items designed and fabricated in accordance with ASME Section III, Code Class 2, 1977 Edition with Summer 1977 Addenda requirements with the following exceptions as stated in Supply System's Procurement Specification No 12023: No ASME Code stamping, no ASME Code Data Report and no hydrostatic testing.

3) The new replacement studs and nuts comply with Code Class 2, 1971 Edition with Summer 1972 Addenda requirements.
 4) The jurisdictional boundary between ASME Section III, Code Class 2 pump suction piping and the non-Code suction strainers is at the bolted flanged joints.

Date: 06/10/98 Sheet: 1 of 1 Unit: WNP-2

F	FORM NIS-2 OWNER'S	REPORT FOR	REPAIRS O	R REPLACEMENTS (Back)
8 Tests Conduc	cted: Hydrostatic [] ا Test Pressure: Palg Component Design		Te:	perating Pressure Other [st Temperature: ^o F mperature: ^o F
9. Remarks: Non	ю			•••
4				
	· ,			
		CERTIFICATE	OF COMPLIA	NCE
We certify ti				correct and this replacement confo
to the rules	of the ASME Code, Sec	tion XI.	o noportare	
Certificate C	Symbol Stamp: Not Applica Of Authorization No.: Not			
Expiration D	Date: Not Applicable	76,		X. 8. 0 8.
Prepared By	Kuldip Singh - Program Les	ad Engineer (PLE)	_Signed By _	Kuldip Singh - Program Load Engineer
. Date	6/10/9		_Date	6/10/98
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			μ	
	CERTI	FICATE OF IN	SERVICE INS	SPECTION
L the unders	sianed, holding a valid (commission iss	ued bv the Ni	ational Board of Boiler and Pres
Vessel Inspe	ectors and the State of \	Washington and	employed by	Arkwright Mutual Insurance Compa ribed in this Owner's Report dur
period <u>///</u>	12/18_ to 1// 3	s <u>í an</u> an	d state to the	best of my knowledge and belie
In accordan	ce with the requirement	ts of the ASME	Code, Section	
By signing t implied, con	his certificate neither th cerning the examinatio	ne Inspector no Ins and correcti	r his employe ve measures	er makes any warranty, expresse described in this Owner's Repo
Furthermore	e, neither the inspector i	nor his employ	er shall be lla	ble in any manner for any perso connected with this inspection.
		~~ ~~		/
1.1	1. Lott		ommissions]	7486 M/ TUSE NISB.
	Inspector's Signature			National Board, State, and Endorseme
Date	5/95			

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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
- (c) Type Code Symbol Stamp: Not Applicable
- (d) Certificate Of Authorization No.: Not Applicable
- (e) Expiration Date: Not Applicable
- 4. Identification Of System: Reactor Core Isolation Cooling (RCIC) System
 - 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda, Code Case: None
 (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: 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(16)-1	WPPSS .	RCIC(16)-1-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced rupture discs for RCIC-RD-1 and RCIC-RD-2. The replacement work was performed as follows:

1) Removed existing rupture discs.

- 2) Performed VT-3 visual examination on the existing studs for both the bolted joints. VT-3 visual examination results acceptable.
- 3) Performed VT-3 visual examination on the existing nuts for both the bolted joints. VT-3 visual examination results acceptable.
 - 4) Installed new rupture discs in RCIC-RD-1 and RCIC-RD-2.
 - 5) Reinstalled VT-3 visually examined existing studs for both the bolted joints.
 - 6) Reinstalled VT-3 visually examined existing nuts for both the bolted joints.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of both the bolted joints. No evidence of leakage during the pressure test.

Date: 06/23/98 Sheet: 1 of 1 Unit: WNP-2

		RASIUNGTON PUBLIC	POWER	, I	PLAN No 2-152 !
		SUPPLY SYS	IEM		4 1
FOR	M NIS-2 OWNER'S R	REPORT FOR REPAIR	IS OR REPLA	CEMENTS (Bad	:k)
	: Hydrostatic Pr. Test Pressure: 3 Psig Component Design P.	· · ·	al Operating Pr Test Tempera Temperature:	ature: 186° F	ther Non
Remarks: None			•		•
				•	
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				×	•
	CE	RTIFICATE OF COM	PLIANCE	•	,
		n this Owner's Report	are correct an	d this replacement	conforms
	ne ASME Code, Section bol Stamp: Not Applicable			•	· ·
Certificate Of Au	Ithorization No.: Not Ap		*	, ,	
Expiration Date:	1 1. 15) . `	XI.	0,00	
Prepared By	Verleip Singh - Program Lead	<u>حام</u> Engineer (PLE)		h - Program Lead Er	aineer (PLE)
Date	6)23198	Date		6123198	
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	CERTIFI	CATE OF INSERVICE	INSPECTION	, <u>, , , , , , , , , , , , , , , , , , </u>	
Vessel Inspector of Waltham, Mass period <u>5757</u> Owner has perfo in accordance w	rs and the State of Wa achusetts have inspec to <u>7.1.22</u> formed examinations a fifth the requirements of	mmission issued by the shington and employed ted the components of and state to and taken corrective mo of the ASME Code, Se	d by Arkwright M lescribed in this the best of my leasures descri action XI.	lutual Insurance (s Owner's Repo knowledge and ibed in this Own	Company rt during the l belief, the ler's Report
Implied, concern Furthermore, ne	ning the examinations ither the Inspector no	Inspector nor his emp and corrective measu r his employer shall b f any kind arising fron	ures described le liable in any i or connected	In this Owner's manner for any with this inspec	Report. personal tion.
Insp	Sctor's Signature	Commissio		oard, State, and End	
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
 - (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 Atmosphere Control (CAC) System
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 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
CAC-HR-1A	Air Products	76-129-3	5209	N/A ×	1977	Replacement	Yes, Code Class 2

- 7. Description Of. Work Performed: Replaced rupture disc for CAC-RD-1A. The replacement work was performed as follows: 1) Removed existing rupture disc from CAC-RD-1A.
 - Performed VT-3 visual examination on the existing studs for CAC-RD-1A bolted joint. VT-3 visual examination results acceptable.
 Performed VT-3 visual examination on the existing nuts for CAC-RD-1A bolted joint. VT-3 visual examination results acceptable.
 - 4) Installed new rupture disc in CAC-RD-1A.
 - 5) Reinstalled VT-3 visually examined existing studs for CAC-RD-1A bolted joint.
 - 6) Reinstalled VT-3 visually examined existing nuts for CAC-RD-1A bolted joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of CAC-RD-1A bolted joint. No evidence of leakage during the pressure test.

Date: 06/04/98 Sheet: 1 of 1 Unit: WNP-2

PLAN N PLAN PLAN N			
SUPPLY SYSTEM FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) Tests Conducted: Hydrostatic Pheumatic Nominal Operating Pressure Office Test Temperature: 77° F Component Design Pressure: 50 Paig CERTIFICATE OF COMPLIANCE We certify that the statements made in this Owner's Report are correct and this replacement confort 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 Nuklip Singh - Prógram Load Engineer (PLE) Nuklip Singh - Prógram Load Engineer (PLE) At the undersigned, holding a valid commission issued by the National Board of Boller and Pressat Vessel Inspectors and the State of Washington and employed by Atwinght Mutual Insurance Company of Walking Massechuses have Inspected the component described in this Owner's Report durin for the requirements of the ASME Code, Section XI. Type Code Symbol State of Washington and employed by Atwinght Mutual Insurance Company of Walking Massechuses have Inspected the Component described in this Owner's Report durin for the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employee that for the source durin for the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employee that is any warranty, expressed Implied, concerning the examinations and carcelive measures described in this Owner's Report for the requirements of the ASME Code, Section XI. By signing this certificate nor his employee shall be liable in any manner for any personn injury or properly damage or a loss of any kind arising from or connected with this inspection.			PLAN N
B Tests Conducted: Hydrostalic Pneumatic Nominal Operating Pressure: So Other Test Pressure: So Psig Test Temperature: Tr ⁰ F Component Design Pressure: 50 Psig Temperature: Tr ⁰ F Component Design Pressure: 50 Psig Temperature: 350° F P. Remarks: None CERTIFICATE OF COMPLIANCE We certify that the statements made in this Owner's Report are correct and this replacement conform to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Expiration Date: Not Applicable Prepared By Lucass Kuldip Singh - Phogram Load Engineer (PLE) Date Certificate of Boiler and Pressure (PLE) Number State of Washington and employed by Adwingth Mutual Insurance Component of Secribed In this Owner's Report durin period (j. 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 Adwingth Mutual Insurance Components of the ASME Code, Section XI. Owner has performed examinations and taken corrective measures described in this Owner's Report durin period (J. 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 Adwingth Mutual Insurance Components of the ASME Code, Section XI. (j. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and em		SUPPLY SYSTEM	
Test Temperature: 77° F Component Design Pressure: 50 Paig Test Temperature: 77° F Temperature: 350° F Remarks: None CERTIFICATE OF COMPLIANCE We certify that the statements made in this Owner's Report are correct and this replacement confort 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 CERTIFICATE OF INSERVICE INSPECTION It to undersigned, holding a valid commission issued by the National Board of Boiler and Pressu CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressu Vessel inspectors and the State of Washington and employed by Akwingth Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during period 2	F	ORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Bac	:k)
CERTIFICATE OF COMPLIANCE We certify that the statements made in this Owner's Report are correct and this replacement confort 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 ULLAY Such Signed By ULLAY Register Certificate of Authorization No.: Not Applicable Date	B Tests Conduct	Test Pressure: 39 Psig Test Temperature: 77° F	ther
CERTIFICATE OF COMPLIANCE We certify that the statements made in this Owner's Report are correct and this replacement conform 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 <u>Jutamp</u> Kuidip Singh - Program Lead Engineer (PLE) Not <u>Kuidip Singh - Program Lead Engineer (PLE)</u> Date <u>6</u>]4[98 Date <u>6</u>]4[98 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 of Wathnam, Massachusetts have inspected the components described in this Owner's Report durin period <u>2/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1</u>	Remarks' Non		
We certify that the statements made in this Owner's Report are correct and this replacement confort 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 Use Signed By Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE) Date 6 4 9 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressur Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Wathan, Massachusetts have Inspected the components described in this Owner's Report durin, period 2/1/1/1 Comments of the ASME Code, Section XI. By signing this certificate neither the Inspector nor 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 makes any warranty, expressed implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor 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 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 loss of any kind arising fr			
We certify that the statements made in this Owner's Report are correct and this replacement confort 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 Use Signed By Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE) Date 6 4 9 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressur Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Wathan, Massachusetts have Inspected the components described in this Owner's Report durin, period 2/1/1/1 Comments of the ASME Code, Section XI. By signing this certificate neither the Inspector nor 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 makes any warranty, expressed implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor 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 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 loss of any kind arising fr			•
We certify that the statements made in this Owner's Report are correct and this replacement confort 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 Use Signed By Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE) Date 6 4 9 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressur Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Wathan, Massachusetts have Inspected the components described in this Owner's Report durin, period 2/1/1/1 Comments of the ASME Code, Section XI. By signing this certificate neither the Inspector nor 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 makes any warranty, expressed implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor 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 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 loss of any kind arising fr	•	•	
We certify that the statements made in this Owner's Report are correct and this replacement confort 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 UseApplicable Kuldip Singh - Program Lead Engineer (PLE) Date 6 4 9 8 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressur Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Watham, Massachusetts have Inspected the components described in this Owner's Report durin, period 2/19/19 to 0/19/19/19/19/19/19/19/19/19/19/19/19/19/			
We certify that the statements made in this Owner's Report are correct and this replacement confort 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 Use Signed By Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE) Date 6 4 9 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressur Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Wathan, Massachusetts have Inspected the components described in this Owner's Report durin, period 2/1/1/1 Comments of the ASME Code, Section XI. By signing this certificate neither the Inspector nor 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 makes any warranty, expressed implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor 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 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 loss of any kind arising fr			<u> </u>
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 <u>Uucup</u> <u>Sucp</u> Signed By <u>Uucup</u> <u>Sauce</u> <u>Kuldip Singh - Program Lead Engineer (PLE)</u> Date <u>6</u> 4 (38 Date <u>6</u> 4 (38 Da		CERTIFICATE OF COMPLIANCE	
Date 6498 Date 6498 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressurvessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Watham, Massachusetts have inspected the components described in this Owner's Report during period Description and state to the best of my knowledge and bellef, owner has performed examinations and taken corrective measures described in this Owner's Report. The accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor 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 loss of any kind arising from or connected with this Inspection. Min. Table Commissions 2480/174866 m.FSP J.	to the rules of Type Code S Certificate O	of the ASME Code, Section XI. Symbol Stamp: Not Applicable If Authorization No.: Not Applicable	conforr
Date 6498 Date 6498 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressurvessel inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Waitham, Massachusetts have inspected the components described in this Owner's Report during period J to J J and state to the best of my knowledge and bellef, owner has performed examinations and taken corrective measures described in this Owner's Report during period J to J By signing this certificate neither the inspector nor 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 makes any warranty, expressed implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor 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 loss of any kind arising from or connected with this Inspection. Militian Commissions Commissions Commissions Commissions	Prepared By	Quedip Supp Signed By Loudip Sing	5
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressu Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Watham, Massachusetts have inspected the components described in this Owner's Report during period <u>2197</u> to <u>6977</u> and state to the best of my knowledge and bellef, Owner has performed examinations and taken corrective measures described in this Owner's Rej 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 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. Milli Mattanta Commissions <u>MIRW TARK</u> with a first of the Section Section Section.			ngin oo r (Pl
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressures Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Wattham, Massachusetts have inspected the components described in this Owner's Report during period <u>2/19/19</u> to <u>6/87</u> and state to the best of my knowledge and belief, owner has performed examinations and taken corrective measures described in this Owner's Report. By signing this certificate neither the inspector nor 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 persona injury or property damage or a loss of any kind arising from or connected with this inspection.			
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressur Vessel Inspectors and the State of Washington and employed by Arkwight Mutual Insurance Company of Watham, Massachusetts have inspected the components described in this Owner's Report during period <u>2/19/19</u> to <u>6/19/10</u> and state to the best of my knowledge and belief, Owner has performed examinations and taken corrective measures described in this Owner's Rep 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 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 persona injury or property damage or a loss of any kind arising from or connected with this inspection.			
	Vessel Inspe of Waltham, M period /// Owner has p in accordance By signing th Implied, cont Furthermore	Igned, holding a valid commission issued by the National Board of Boller and ectors and the State of Washington and employed by Arkwight Mutual Insurance (Massachusetts have inspected the components described in this Owner's Repo <u>and state to the best of my knowledge and</u> performed examinations and taken corrective measures described in this Owner's ce with the requirements of the ASME Code, Section XI. his certificate neither the inspector nor his employer makes any warranty, exp cerning the examinations and corrective measures described in this Owner's performed to the section of the ASME Code, Section XI.	Company ort during d bellef, ner's Rep pressed Report. personi
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Date <u>1/5/195</u>	VIIII		
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	Date la / S	175	
	Date <u>le/8</u>		



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
- Date: 06/04/98 Sheet: 1 of 1 Unit: WNP-2
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
 - (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 Atmosphere Control (CAC) System
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 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
CAC-HR-1B	Air Products	76-130-3	5210	N/A	1977	Replacement -	Yes, Code Class 2

- 7. Description Of Work Performed: Replaced rupture disc for CAC-RD-1B. The replacement work was performed as follows: 1) Removed existing rupture disc from CAC-RD-1B.
 - 2) Performed VT-3 visual examination on the existing studs for CAC-RD-1B bolted joint. VT-3 visual examination results acceptable.
 - 3) Performed VT-3 visual examination on the existing nuts for CAC-RD-1B bolted joint. VT-3 visual examination results acceptable. 4) Installed new rupture disc in CAC-RD-1B.
 - 5) Reinstalled VT-3 visually examined existing studs for CAC-RD-1B bolted joint.
 - 6) Reinstalled VT-3 visually examined existing nuts for CAC-RD-1B bolted joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of CAC-RD-1B bolted joint. No evidence of leakage during the pressure test.

	PLAN No 2-15	
	SUPPLY SYSTEM	
	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
8 T	B Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other None Test Pressure: 39 Psig Test Temperature: 76.8° F Component Design Pressure: 50 Psig Temperature: 350° F	
9. I	Remarks: None	
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Γ		
	CERTIFICATE OF COMPLIANCE We certify that the statements made in this 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 Julicable Kuldip Singh - Program Lead Engineer (PLE) Date 6/4/98	
L	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 of Watham, Massachusetts have inspected the components described in this Owner's Report during the period $2-19-98$ to 4796 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.	
	M.M. Jean Commissions 7486 W/7486 WISA IS	
1	Inspector's Signature National Board, State, and Endorsements	
	Date <u>4/8/98</u>	

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· · ·	-	PLAN No	2-1523
SUPPLY, SYSTEM	*	· • •	:
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLA As Required By The Provisions Of The ASME Code Sec		TS	
1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352		Date: 04/02/98 Sheet: 1 of 1	
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)		Unit: WNP-2	
Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)			
(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System	(WPPSS)	3	
(c) Type Code Symbol Stamp: Not Applicable		·	
(d) Certificate Of Authorization No.: Not Applicable (e) Expiration Date: Not Applicable	•	•	
4. Identification Of System: Control Room Chilled Water (CCH) System	- •	-	
5. (a) Applicable Construction Code: ASME Section III; Code Class 3, 1971 Edition with Winter	r 1973 Ad	denda, Code Cas	e: 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
SW(22)-2	WPPSS	SW(22)-2-P1	N/A	N/A	1983	Replacement	. Yes, Code Class 3
	, , ,	.				· · ·	

7. Description Of Work Performed: Replaced rupture disc for CCH-RD-1B. The replacement work was performed as follows: 1) Removed existing rupture disc from CCH-RD-1B.

2) Performed VT-3 visual examination on the existing studs for CCH-RD-1B bolted joint, VT-3 visual examination results acceptable.

3) Performed VT-3 visual examination on the existing nuts for CCH-RD-1B bolted joint. VT-3 visual examination results acceptable.

4) Installed new rupture disc in CCH-RD-1B.

5) Reinstalled VT-3 visually examined existing studs for CCH-RD-1B bolted joint.

6) Reinstalled VT-3 visually examined existing nuts for CCH-RD-1B bolted joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary Integrity of CCH-RD-1B bolted joint. No evidence of leakage during the pressure test.

MASILINGTON PUBLIC PORER	PLAN No 2-1523
SUPPLY SYSTEM	
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
ests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Test Pressure: 33 Psig Component Design Pressure: 309 Psig Temperature: 150° F] Other [None
Remarks: See attached NR-1 Code Data Report for the new replacement rupture disc.	•
	,
· ·	
CERTIFICATE OF COMPLIANCE	· · · · · · · · · · · · · · · · · · ·
We certify that the statements made in this Owner's Report are correct and this replacen	ment conforms
to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	•
Prepared By <u>(Lind)</u> Signed By <u>Lind)</u> Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead	d Engineer (PLE)
Date 4 2 7 8 Date 4 2 7	8
]
	·····
I, the undersigned, holding a valid commission issued by the National Board of Boiler of Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance of Waltham, Massachusetts have inspected the components described in this Owner's Reperiod <u>1997</u> to <u>1997</u> to <u>1997</u> and state to the best of my knowledge of Waltham and the state of the best of the state of the stat	ce Company port during the and bellef, the
Owner has performed examination's and taken corrective measures described in this C 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 Owne Furthermore, neither the inspector nor his employer shall be liable in any manner for a injury or property damage or a loss of any kind arising from or connected with this ins	ny personal
Shill Commissions 7486 W/7486 M	ITIB IS
Inspector's Signature National Board, State, and Date 4/2/96	Endorsements

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PLAN A	10.2-152
CUSTOMER: WASHINGTON FUBLIC POWER	dith Swa
SAFETY SYSTEMS	415198
As Required by the Provisions of the ASME Code Rules, Section III, Div. 1	
1. Manufactured by: <u>BS&B Safety Systems, Inc.,</u> <u>Tulsa, Cklahoma</u> (Name and address of Manufacturer)	
IDENTIFICATION OF RUPTURE DISK	· · · · ·
2. Type of Style: BV Lot No.: 87090001-1	
3. Disk Dimensional Characteristics:	
Size: <u>3"</u> Capacity: <u>10,510</u> SC	FM Air
4. Material Specification: ASTM A-167, 316 SS ANNEAL.	
5. Drawing No.: <u>N/A</u>	·
6. Burst Pressure: 103.95 PSIG Max. 94.05 PSIG Min	•
7. Coincident Disk Temperature: 100 DEG P	<u> </u>
8. Element used in test: AIR	· · ·
9. Cyclic Test Results: <u>N/A</u> (if required)	-
CERTIFICATION	
10. Place of Test: <u>Tulsa, Oklahoma</u> Date of Test: <u>01/15</u>	/87
WE CERTIFY THE ABOVE DATA TO BE CORRECT AND THAT THESE DISKS HAVE BEEN MANUFACTURED AND TESTED TO THE REQUIREMENTS OF THE ASME CODE.	
DATE: JANUARY 21, 1987 ISSNED BY: BS&B Safety Systems, Inc.	
APPROVED BY: Approved BY: APPROVED BY: Joan B. Vance, Quality Control Manager	۶
No. of Pieces Shipped:12	
Actual Burst Test Results: 104, 102 PSIG @ 72 DEG F	
STAMP DISK TAB: SUPPLY SYSTEM PO #86553; SUPPLY SYSTEM PO IT	EM #1
BS&B SAFETY SYSTEMS, INC 7455 E. 45th Street . P.O. Box 470550 . Tules. Ok. 74147-0590 . Pho TELEX 49-2479 BS&B GEN TUL . FAX 918/665-3506	me 918/822-5960

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SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: Residual Heat Removal (RHR) 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
Spare Relief Valve (RHR-RV-18)	Crosby	N60597-00-0003	N/A	N/A	1979	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced parts for spare relief valve Serial No N60597-00-0003. The replacement work was performed as follows:

1) Removed existing disc from the spare relief valve.

2) Installed new replacement disc Serial No N91855-45-0086 in the spare relief valve.

- 3) Removed existing base from the spare relief valve.
- 4) Installed new replacement base Serial No N91850-37-0025 in the spare relief valve.

NOTES -

1) Spare relief valve Serial No N60597-00-0003 was previously installed in the plant as RHR-RV-1B.

Date: 03/23/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1524

					PLAN No 2-
			Y SYSTEM		
FO	RM NIS-2 OWNER'S R	REPORT FOR	REPAIRS O	R REPLACEME	NTS (Back)
3 Tests Conducte	d: Hydrostatic Pr Test Pressure: Psig Component Design P	neumatic	Tes	erating Pressure at Temperature: ° nperature: ° F	
9. Remarks: None					
			Ţ		
					<u></u>
	the statements made i	RTIFICATE C			
Expiration Dat	Authorization No.: Not Applicable E: Not Applicable View Applicable Kuldip Singh - Program Lead 3 [23 [98	Nob	_Signed By _	Kuldip Singh - Prog 3)23/9	p Surp b fam Lead Engineer (PLE)
	CERTIFI	ICATE OF INS	SERVICE INS	PECTION	
Vessel Inspect of Waltham, Ma period <u>1//24</u> Owner has per In accordance By signing this implied, conce Furthermore, r	ned, holding a valid co lors and the State of Wa ssachusetts have inspect <u>2</u> formed examinations a with the requirements s certificate neither the eming the examinations bether the inspector no	ashington and o cted the comp and taken com of the ASME (Inspector noi s and correction or his employed	employed by onents descr I state to the l rective measu Code, Section his èmploye ve measures er shall be lia	Arkwright Mutual I. ibed in this Own best of my know ures described in a XI. r makes any war described in this ble in any manne	nsurance Company er's Report during th ledge and belief, the a this Owner's Report granty, expressed or a Owner's Report. er for any personal
	spector's Signature	<u> </u>	ommissions <u>-</u>	National Board, St	ate, and Endorsements
Date <u>3/2</u> /	798	<u></u>		,	

PLAN No 2-1525 WASHINGTON PUBLIC POWER SUPPLY SYSTEM FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI 1. Owner: Washington Public Power Supply System (WPPSS) Date: 05/23/98 Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 Sheet: 1 of 1 Unit: WNP-2 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS) ¥ (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 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
RHR-RV-1A	Crosby	N60597-00-0019	N/A	N/A	1990	Replaced	Yes, Code Class
RHR-RV-1A	Crosby	N60597-00-0018	N/A	N/A	1990	Replacement	Yes, Code Class

7. Description Of Work Performed: Replaced existing relief valve RHR-RV-1A. The replacement work was performed as follows:
 1) Removed existing relief valve RHR-RV-1A, Serial No N60597-00-0019.
 2) Installed spare relief valve RHR-RV-1A, Serial No N60597-00-0018.

NOTES -

1) The ASME Code Stamped piping system applicable to the relief valve inlet side is Residual Heat Removal (RHR) piping system

RHR(1)-2A-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda > requirements.

2) The ASME Code Stamped piping system applicable to the relief valve outlet side is Residual Heat Removal (RHR) piping system RHR(4)-1A-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.

3) Relief valve RHR-RV-1A, Serial No N60597-00-0018 is certified to comply with ASME Section III, Code Class 2, 1974 Edition with Summer 1975 Addenda requirements.

SUPPLY SYSTEM	•
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS	S (Back)
ests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure [Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F	Other 🔀 None
Remarks: See attached NV-1 Code Data Report for the spare relief valve RHR-RV-1A, Serial No N60597-0	00-0018.
	• ,
	<i>.</i>
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this Owner's Report are correct and this repla 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	acement conforms
Prepared By Under Signed By Kuldip Singh - Program Load Engineer (PLE) Kuldip Singh - Program	Load Engineer (PLE)
Date5 23 98Date5 23 98	<u> </u>
· · ·	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Bol Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insu of Waltham, Massachusetts have inspected the components described in this Owner's period <u>14/16/97</u> to <u>37/23776</u> and state to the best of my knowled Owner has performed examinations and taken corrective measures described in the In accordance with the requirements of the ASME Code, Section XI.	arance Company s Report during the lge and bellef, the his Owner's Report
By signing this certificate neither the Inspector nor his employer makes any warran implied, concerning the examinations and corrective measures described in this O Furthermore, neither the Inspector nor his employer shall be liable in any manner f injury or property damage or a loss of any kind arising from or connected with this Mathematical Commissions 2416 w/ 7410 N	wner's Report. for any personal inspection.
Inspector's Signature Commissions	
TINTIAN	l. I.

CROSEN	CROSET VA	LYE & GAGE COMPA
		ENTHAN WASS
	NV-1 FOR SAFETY AND SAFETY equired by the Provisions of the A	REDIEF VALVES Q.C4C
	DATA REPORT	Quidip
eti :	Safety and Safety Relief V	Lives
I. Manufactured By Crosby-Valv	e & Gage Co., 43 Kendri	ck St., Wrentham, MA 02093
JR-WR Order No.	Name and Address N06360 Contract Da	re <u>3/7/90 National Board No.</u>
🚽 🕘 - 🕐 Washington Pu	iblic Power Supply Syste	u
2. Manufactured For PO Box 968	Richland, WA 99352-096 Name and Address	8 Order No 204649
3. Owner Washington Publ	ic Power Supply System	
· · · · ·	Name and Address	
4. Location of Plant Hanford	III RHR-RV-IA	SIN N60597-00-0018
5. Valve identification MPL E12BOC	1Serial NoN60597-00-	-0018 Drawing NoDS-C-60597 Rev. 1
TypeRelief	Opfice Size •	280 Pipe Size Inlet 3/4 Outlet
Safety.Safety Relief.Pilot.Po		inch inch inch
6. Set Pressure (PSIG) 500		480 ⁰ Raied Temperature
	0.70 ⁰ F 10 -	•
Stamped Capacity 20 GPM WIR	e	essure Blowdown (PSIG) _ 152 Of SI
Hydrostatic Test (PSIG) Inlet		
Hydrostatic Test (PSIG) Inlet	750 Com	
Hydrostatic Test (PSIG) Inlet	750 Comp and workmanship comply with ASH	Code. Section III.
Hydrostatic Test (PSIG) Inlet	750 Comp and workmanship comply with ASH	Code. Section III.
Hydrostatic Test (PSIG) Inlet	750 Comp and workmanship comply with ASM 974,Addenda Date	Code. Section III.
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction a ClassEdition	750 Comp and workmanship comply with ASM 974,Addenda Date	Code. Section III.
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction a ClassEdition	750 Comp and workmanship comply with ASH 974,Addenda DateSu staining Components	c Code. Section III. 17 mmer 1975 , Case No. 1567
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction of Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re	750 Comp and workmanship comply with ASH 974Addenda Date staining Components Serial No.	Diete Valve 225 C Code. Section III
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction is Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings	750 Comp and workmanship comply with ASH 974Addenda Date staining Components Serial No.	Diste Valve 225 C Code. Section III
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction a Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body	750 Comp and workmanship comply with ASM 974,Addenda Date staining Components Serial No. Identification	Code. Section III. <u>mmer 1975</u> , Case No. <u>1567</u> <u>Material Specification</u> Including Type or Grade
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction a Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body <u>KNEWK</u> Cylinder	750 Comp and workmanship comply with ASM 974,Addenda Date staining Components Serial No. Identification	Code. Section III. <u>mmer 1975</u> , Case No. <u>1567</u> <u>Material Specification</u> Including Type or Grade
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction a Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body KNOWK Cylinder b. Bar Stock and Forgings	750 Comp and workmanship comply with ASM 974,Addenda Date staining Components Serial No. Identification	Code. Section III. <u>mmer 1975</u> , Case No. <u>1567</u> <u>Material Specification</u> Including Type or Grade
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction is Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body KARENK Cylinder b. Bar Stock and Forgings Support Rods	750 Comp and workmanship comply with ASM 974,Addenda DateSum staining Components Serial No. Identification <u>N91851-34-0025</u> <u>N91855-37-0028</u> N91855-46-0092	Diste Valve 225 C Code. Section III
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction is Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body KARBER Cylinder b. Bar Stock and Forgings Support Rods XMREEN Base Disc	750 Comp and workmanship comply with ASM 974Addenda DateSum maining Components Serial No Identification N91851-34-0025 N91850-37-0028	Diete Valve225 C Code. Section III
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction of Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body KERNIK Cylinder b. Bar Stock and Forgings Support Rods XMHXEX Base Disc Spring Washers	750 Comp and workmanship comply with ASM 974,Addenda DateSum staining Components Serial No. Identification <u>N91851-34-0025</u> <u>N91855-37-0028</u> N91855-46-0092	ASME SA 479 Type 316 ASME SA 193 Gr. B6
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction is Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body KERNIK Cylinder b. Bar Stock and Forgings Support Rods XMMETHEX Base Disc Spring Washers Adjusting Bolt	750 Comp and workmanship comply with ASM 974,Addenda DateSum staining Components Serial No. Identification N91851-34-0025 N91855-46-0092 N92220-36-0085 N92220-36-0087	ASME SA 479 Type 316 ASME SB 164 CL. A
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction of Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body KERNIK Cylinder b. Bar Stock and Forgings Support Rods XMHXEX Base Disc Spring Washers	750 Comp and workmanship comply with ASM 974Addenda DateSum maining Components Serial No Identification N91851-34-0025 N91855-46-0092 N92220-36-0085 N92220-36-0087 N92221-34-0027	ASME SA 479 Type 316 ASME SA 193 Gr. B6 ASME SA 193 Gr. B6
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction is Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body KERNIK Cylinder b. Bar Stock and Forgings Support Rods XMMETHEX Base Disc Spring Washers Adjusting Bolt	750 Comp and workmanship comply with ASM 974Addenda DateSum maining Components Serial No Identification N91851-34-0025 N91855-46-0092 N92220-36-0085 N92220-36-0087 N92221-34-0027	ASME SA 479 Type 316 ASME SA 193 Gr. B6 ASME SA 193 Gr. B6
Hydrostatic Test (PSIG) Inlet 7. The material, design, construction is Class <u>2</u> Edition <u>1</u> Pressure Containing or Pressure Re a. Castings Body KERNIK Cylinder b. Bar Stock and Forgings Support Rods XMMETHEX Base Disc Spring Washers Adjusting Bolt	750 Comp and workmanship comply with ASM 974Addenda DateSum maining Components Serial No Identification N91851-34-0025 N91855-46-0092 N92220-36-0085 N92220-36-0087 N92221-34-0027	ASME SA 479 Type 316 ASME SA 193 Gr. B6 ASME SA 193 Gr. B6

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27:53.--1.50 ۰. د × 6. VXLVE YBECRÓ COMPAN 6 1. **X** ົ อ VERIFIED & ACCEPTED REC. HSPECTOR Serial No. or LEVEL T Material Specification € Identification Including Type or Grade 1.11 2.1 NX3119-0026 ASTM B166 c. Spring 10. TA d. Bolung ٠. 1. e. Other Parts such as Pilot Components 5 2 ۰ ۱ 3 We certify that the statements made in this report are correct. 9/25/ 19 50 Signed Crosby Valve & Gage Co. 0 Date Manufacturer U exputes September 30, 1992 1878 J Certificate of Authorization No. M CERTIFICATE OF SHOP INSPECTION - and employed by have inspected the equipment described in this Data Report on Sear 19 1920_ and state that to the best of my knowledge and belief. the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report.Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Factory Mutual System 19 90 2 Dain 1207 Commissions (Inspector) National Board, State, Province and No.1 · م . . و اخلة ال

SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: 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-4B Trigger Body Trigger Body Inlet Friting Inlet Friting	Conax Conax Conax Conax Conax	N/A 4296 4295 4329 4328	90 N/A N/A N/A N/A	NA NA NA NA NA	1975 1993 1993 1993 1993 1993	Replacement Replaced Replacement Replaced Replacement	Yes, Code Class 1 Yes, Code Class 1

7. Description Of Work Performed: Replaced parts for the existing valve SLC-V-4B. The replacement work was performed as follows:

- 1) Removed the existing Trigger Body Subassembly Serial No 4296 from the valve.
- 2) Installed new Trigger Body Subassembly Serial No 4295 in the valve.
- 3) Removed the existing Inlet Fitting Serial No 4329 from the valve.
- 4) Installed new Inlet Fitting Serial No 4328 in the valve.
- 5) Performed VT-3 visual examination on the existing studs for the valve joint. VT-3 visual examination results acceptable. Note One (1) set of studs cover both the inlet and the outlet joints.
- 6) Performed VT-3 visual examination on the existing nuts for the valve inlet joint. VT-3 visual examination results acceptable.
- 7) Performed VT-3 visual examination on the existing nuts for the valve outlet joint. VT-3 visual examination results acceptable.
- 8) Reinstalled refurbished valve SLC-V-4B, National Board No 90.
- 9) Reinstalled VT-3 visually examined existing studs and nuts for the valve inlet and outlet joints.
- 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 Standby Liquid Control (SLC) piping system SLC(2)-4S-P1

 2) ASME Section III, Code Class 1, 1971 Edition with Winter 1972 Addenda for the existing valve SLC-V-4B, national Board No 90.
 3) ASME Section III, Code Class 1, 1977 Edition with Summer 1977 Addenda for the new Trigger Body Subassembly Serial No 4295. The new Trigger Body Subassembly certified to 1977 Edition with Summer 1977 Addenda is acceptable for use in the existing valve certified to 1971 Edition with Winter 1972 Addenda. This acceptability is documented in ASME Section XI Plan No 2-1526.
 4) ASME Section III, Code Class 1, 1977 Edition with Summer 1977 Addenda for the new Inlet Fitting Serial No 4328. The new Inlet

Fitting certified to 1977 Edition with Summer 1977 Addenda is acceptable for use in the existing valve certified to 1971 Edition with Winter 1972 Addenda. This acceptability is documented in ASME Section XI Plan No 2-1526.

Date: 05/22/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1526

		PLAN No 2-1526
	SUPPLY SYST	OWER
FORM	NIS-2 OWNER'S REPORT FOR REPAIR	S OR REPLACEMENTS (Back)
Te	rdrostatic Pneumatic Nomina t Pressure: 1172/1240 Psig nponent Design Pressure: 1400 Psig	<i>I Operating Pressure Other None</i> <i>Test Temperature:</i> Ambient/72.8 ^o F <i>Temperature:</i> 150 ^o F
<u>Valve Part</u> Trigger Body Subassen		acement valve parts:
stem SLC(2)-4S-P1 Test pressure on the down	stream side of valve SLC-V-4B (RPV Side) - Test pr	h valve SLC-V-4B and Standby Liquid Control (SLC) piping essure of 1172 Psig and test temperature of Ambient. pressure of 1240 Psig and test temperature of 72.8° F.
	CERTIFICATE OF COMP	PLIANCE
to the rules of the J Type Code Symbol Certificate Of Auth Expiration Date: No	SME Code, Section XI. Stamp: Not Applicable orization No.: Not Applicable Applicable	are correct and this replacement conforms
Prepared By Kuldij Date S	Laip Supb Signed Singh Program Lead Engineer (PLE) 22[98 Date	By Underform Load Engineer (PLE) Kuldip Singh - Program Load Engineer (PLE) 5/22/98
	CERTIFICATE OF INSERVICE	INSPECTION
Vessel Inspectors a of Waltham, Massact period <u>5/1/78</u> Owner has perform In accordance with By signing this cer Implied, concerning Furthermore, neith	to <u>57/23/98</u> and state to ed examinations and taken corrective m the requirements of the ASME Code, Sec	I by Arkwright Mutual Insurance Company escribed in this Owner's Report during the the best of my knowledge and belief, the easures described in this Owner's Report ction XI. loyer makes any warranty, expressed or res described in this Owner's Report. e liable in any manner for any personal
H.M.		THOMMANY AND IC
	Commissio	ns <u>7476 WITHIC NITE IS</u> National Board, State, and Endorsements

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, As Req	uired by the Provisio	RTS AND APPUR ns of the ASME C cood One Day's Pr	ode, Section III, Divisi	PLAN NO, 2-1526 on 1 Pa_1_or_1
		cold One Day's Pr	oducaon	
1. Manufactured and certified by	onax Buffalo Cor			ktowaga, NY 14225
	*	(neme and add	drees of constituate hereony	· · · · · ·
Manufactured forW	ashington Public	Power Supply,	Richland, WA	
		(name and address		
3. Location of installation	NP-2. WA			•
1		(name and	d adoress)	
4. Type <u>N-20000 Rev.</u> F	304SST SA479	75KSI	NA	1993
LOTAWING NO 3	Insti spec not	, itensile strengths	(CRN)	ITEST Dunti
5. ASME Code, Section III: 77		S77	1	NA
1	, ledition)	(addenda)	(Ciasa)	ICode Case no +
$_36.$ Fabricated in accordance with	Const. Spec (Div. 2 only	NA	Revision	Date
		LNO J		
7. Remarks: Trigger Body	Sub Assembly for	explosive act	uated valve replac	ement kit for
 standby liquid 	control system.	Pressure test	ed at 2800 PSI for	10 minutes.
Para. NB-2121 (b) is applicable	to ram. U	15ED 8/N 4295	5 Rulant Burgh
# ====			•	5/21/98

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> 8. Nom. thickness (in.) #See remarks 9. When applicable. Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
4295 -	4295	(26)	
4296	4296	(27)	
		(28)	
		(29)	•
		(30)	
)		(31)	·
		(32)	
)		(33)	
		(34)	÷.
0)		(35)	
1)		(36)	
2)		(37)	
3)		(38)	
4)		(39)	
5)		(40)	
6)		(41)	
7)		(42)	
8)		(43)	
9)		(44)	
0)		(45)	A
1)		(46)	the second s
2)		(47)	
3)		(48)	
4)		(49)	
5)		(50)	
-		·	
Design pressure 1400		°F. Hydro. test pressure	

*Supplemental information in form of Both, photohes or drowings may be used provided (1) pice is 8¹/₂ × 11, (2) information in home 2 and 3 on this data report is included on each phort, (3) ooth sheet is membered and number of phoses is recorded at top of this form, and (4) cash additional about what be signed by the Caroliness Holder and the AMI. (8/23) This form (200040) may be obtained from the Order Capt., ASACE, 348 E. 47th St., New York, N.Y. 10017

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FORM N-2 (beck)

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				FDESIGN				
		<u> </u>				A :		
Design specificat	ions certified b	yUydi	e T. Nieh	······	P. E. state	<u>CA</u>	Reg. no	-
Design report* ce	Intified by	Franc	cis J. Domino		P E. state	NY	_ Rea	36837
	,		1404 40011CADIO		• ə ə isi¥	•		
			CERTIFICATE OF SHO					
We certify that the) statements m	ade in this re-	port are correct and that thi	S (these) Trigger	r Body Su	<u>b</u> Assem	ıblv	
			SME Code, Section III.	0				
ASME Certificate	of Authoriza-		N-1850	F	ires Sep	t. 2. 1	995	-
				-	···••	· · · · ·) //	
Date 4120/9	2 Name	Conax Bu	uffalo Corporation	n Signed	(u. TI	in M	<u>ca</u> 71-	
				<u>C</u>	urt M. Pr	att, Q	uality E	ngine
			CERTIFICATE OF SHO	P INSPECTION				
18		1					7 4 .	
ice of New Yo	, noiding a valid rk	u commission	issued by the National Bo H.S.B.I. & I	ard of Boiler and Pi	ressure Vesse	i inspecto	rs and the s	tate or
Hartford,	CT have	Inspected the	bese items described in thi	s data report on	SENT 21	199 3	_ and ever-	10.91 *-
ist of my knowle	dge and belief	, the Certifice	te Holder has fabricated t	hese parts or anour	ténances in -	CCOMPAGE	With the A	SHEC
						بايرا المحد مدرر		
	art listed has ?	been authorize	ed for stamping on the day	te shown above				
y signing this ce	rtificate, neithi	er the inspect	ed for stamping on the dat tor nor his employer make	is any warranty, exp				
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As Rec	ON NET CERTIFICATE NUCLEAR PARTS juired by the Provisions o Not To Excess	AND APPURTENA	ection III, Div	PI ANI NO 2-15
				Pg0
Manufactured and certified by _	Conax Buffalo Corpo	ration, 2300 Wald	den Ave., C	Cheektowaga, NY 14
Manufactured for	Washington Public Po	wer Supply Rich		06352_0060
	•	(name and address of purcha		27332-0908
Location of installation	WNP-2, WA	(name and address)		
Type <u>N38017. Rev. F</u>	304SST SA479	75KSI	NA	1993
		Itensie strength)	ICRN)	·768/ 0.5 ·*· NA
ASME Code, Section III77		100000683	(01858)	·Code Case no ,
Fabricated in accordance with	Const. Spec. (Div 2 only)	NA Revisio	n	Date
Remarks: Inlet Fitting	for explosive actu	(No) ated valve replac	ement kit	for standby liqui
	```			
control system.	Pressure tested a	2800 PSI for 10	) minutes.	•
USED S	1N 4328	Julanp	Swieb	
				8
Nom. thickness (in.)	Min. design thickness (in.) _	.031_ Dia. ID (ft. & in.	NA Leng	gth overall (ft. & in.) <u>NA</u>
When applicable, Certificate H	olders' data reports are attac	hed for each item of thi	is report:	
				•
Part or Appurtenance	National	Part or Appurt		National *
Part or Appurtenance . Serial Number	Board No.	Part or Appuri Serial Nurr		Board Number
	-	<b>1</b>		
Serial Number (1)4328 *	Boerd No. In Numerical Order 4328	<b>1</b>		Board Number
Serial Number (1) <u>4328 -</u> (2) <u>4329</u>	Board No. In Numerical Order	Serial Nurr (26) (27)	iber	Board Number
Serial Number (1) 4328 * (2) 4329 (3)	Boerd No. In Numerical Order 4328	(26) (27) (28)	iber	Board Number
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Serial Number           (1)         4328 *           (2)         4329           (3)	Boerd No. In Numerical Order 4328	Serial Nurr (26) (27) (28) (29) (30) (31) (32)		Board Number
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Serial Number         (1)       4328 *         (2)       4329         (3)	Boerd No. In Numerical Order	Serial Nurr         (26)         (27)         (28)         (30)         (31)         (32)         (33)         (33)         (34)         (35)         (36)         (37)         (38)         (40)         (41)         (42)         (43)         (44)         (45)         (46)         (47)		Board Number In Numerical Örder
Serial Number         (1)       4328 *         (2)       4329         (3)	Boerd No. In Numerical Order	Serial Nurr         (26)         (27)         (28)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (40)         (41)         (42)         (43)         (44)         (45)         (48)		Board Number In Numerical Örder
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"Supatemental information in form of lists, photoheser drawings may be used provided (1) size is 8¹/2 × 11, (2) information in items 2 and 3 on this data report is builded on each abort, (3) each abort is numbered and number of shorts is reserved at usp of this form, and (4) each additional short shall be signed by the Cartificate Holder and the AM. (8/83) This form (600840) may be obtained from the Order Dept., ABME, 348 E, 47th St., New York, N.Y. 10017

# FORM N-2 (back)

CERTIFIC - TE OF DESIGN	
Design specifications certified by Clyde T. Nieh	P, E. state CA Reg. no
Design report* certified byFrancis J. Domino	P E. stateNYReg. no3683
CERTIFICATE OF SHOP COMPLIANC	e .
We certify that the statements made in this report are correct and that this (these) In conform to the fules of construction of the ASME Code. Section till.	let Fittings
	Expires Sept. 2, 1995
Date 7/2:/43 Name Conax Buffalo Corporation Sign	Curt M. Pratt, Quality Engine
CERTIFICATE OF SHOP INSPECTIO	· · · · · · · · · · · · · · · · · · ·
of <u>Hartford</u> , <u>CT</u> have inspected these items described in this data report is best of my knowledge and bellef, the Certificate Holder has fabricated these parts or Section III. Each part listed has been authorized for stamping on the date shown above By signing this certificate, neither the inspector nor his employer makes any warrant described in this data report. Furthermore, neither the inspector nor his employer sha property damage or loss of any kind arising from or connected with this inspection.	appurtenances in accordance with the ASME C re. y, expressed or implied, concerning the equipm
Date 9/21/93 Signed Com	The state of the s
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PLAN No 2-1527



## 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: Low Pressure Core Spray (LPCS) 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
LPCS-V-3	Anchor Darling	2N-563	N/A	N/A	1975	Replacement	Yes, Code Class 2
		•				1	

7. Description Of Work Performed: Replaced stud for the South side hinge pin cover plate for valve LPCS-V-3. The replacement work was performed as follows:

1) Performed VT-3 visual examination on the existing studs for the South side hinge pin cover plate. VT-3 visual examination results acceptable.

2) Performed VT-3 visual examination on the existing nuts for the South side hinge pin cover plate. VT-3 visual examination results acceptable.

3) Performed VT-3 visual examination on the existing studs for the North side hinge pin cover plate. VT-3 visual examination results acceptable.

4) Performed VT-3 visual examination on the existing nuts for the North side hinge pin cover plate. VT-3 visual examination results acceptable.

5) Reinstalled VT-3 visually examined existing studs and nuts for the South side hinge pin cover plate.

6) Installed one (1) new replacement stud for the South side hinge pin cover plate.

7) Reinstalled VT-3 visually examined existing studs and nuts for the North side hinge pin cover plate. No new replacement studs and nuts were installed the North side hinge pin cover plate.

8) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the South side hinge pin cover plate. No evidence of leakage during the pressure test.

9) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the North side hinge pin cover plate. No evidence of leakage during the pressure test.

Date: 05/19/98 Sheet: 1 of 1 Unit: WNP-2

SUPPLY SYSTE	
FORM NIS-2 OWNER'S REPORT FOR REPAIRS	SOR REPLACEMENTS (Back)
•	<i>Operating Pressure</i> X Other None <i>Test Temperature:</i> 73.4° F <i>Temperature:</i> 100° F
Remarks: None	
	· · · ·
	· • • • • • •
	· · · ·
CERTIFICATE OF COMPL	
We certify that the statements made in this Owner's Report at 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 - Program Lead Engineer (PLE) Date Signed B	1.2.00
	· · · · · · · · · · · · · · · · · · ·
CERTIFICATE OF INSERVICE I I, the undersigned, holding a valid commission issued by the Vessel Inspectors and the State of Washington and employed I of Waltham, Massachusetts have inspected the components des period	National Board of Boiler and Pressure by Arkwright Mutual Insurance Company
Owner has performed examinations and taken corrective mea in accordance with the requirements of the ASME Code, Sect. By signing this certificate neither the inspector nor his emplo implied, concerning the examinations and corrective measure Furthermore, neither the inspector nor his employer shall be injury or property damage or a loss of any kind arising from o	asures described in this Owner's Report lon XI. over makes any warranty, expressed or es described in this Owner's Report. liable in any manner for any personal or connected with this inspection.
I III CANTO AND	
Inspector's Signature	National Board, State, and Endorsements
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## PLAN No 2-1528



# 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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: Miscellaneous Drains (MD) System
  - 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 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' <del>s</del> Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Valve - MD-V-71 Bonnet - MD-V-71 Valve - Spare Bonnet - Spare	Velan Velan Velan Velan	111 048 1241 2013	N/A N/A N/A	N/A N/A N/A N/A	1978 1978 1978 1978	Replaced Replacement	Yes, Code Class 2 No, Code Class 2 Yes, Code Class 2 No, Code Class 2 No, Code Class 2

7. Description Of Work Performed: Replaced bonnet on existing valve MD-V-71, Serial No 111. The replacement work was performed as follows:

1) Removed bonnet Serial No 048 from existing valve MD-V-71 Serial No 111.

2) Performed VT-3 visual examination on the existing studs for valve MD-V-71 Serial No 111. VT-3 visual examination results acceptable.

3) Performed VT-3 visual examination on the existing nuts for valve MD-V-71, Serial No 111. VT-3 visual examination results acceptable.

4) Removed bonnet Serial No 2013 from spare valve Serial No 1241.

5) Installed bonnet Serial No 2013 on existing valve MD-V-71 Serial No 111.

6) Reinstalled VT-3 visually examined existing studs and nuts.

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7) 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) The existing valve MD-V-71 Serial No 111 is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Summer 1973 Addenda requirements.

2) The spare valve Serial No 1241 is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1972 Addenda requirements.

Date: 06/15/98 Sheet: 1 of 1 Unit: WNP-2

				*	PLAN No
			SYSTEM		FLANNO
I	ORM NIS-2 OWNER'S	REPORT FOR F	EPAIRS OF	R REPLACEMEN	TS (Back)
Tests Conduc	ted: Hydrostatic / Test Pressure: 941 P Component Design	sig	Tes	erating Pressure t Temperature: 539 perature: 575° F	
. Remarks: See	attached NPV-1 Code Data R	leport for the spare val	ve Serial No 12	41.	
				<u>-</u>	
I	C	ERTIFICATE OF	COMPLIAN	ICE	
Prepared By	Kuldip Singh - Program Loa 6/15/98	d Engineer (PLE)	ilgned By	Kuldip Singh - Program	Eurob a Lead Engineer (PLE)
Date	2				
Date	CERTIF	FICATE OF INSE	RVICE INSF	PECTION	
<i>I, the undersi</i> <i>Vessel Inspe</i> of Waltham, M <i>period</i> <u>3</u> //2 <i>Owner has pe</i> <i>in accordanc</i>	gned, holding a valid co stors and the State of W assachusetts have inspe to the state of w formed examinations with the requirements	ommission issued ashington and em cted the compon and taken correc of the ASME Cod	d by the Nati ployed by A ents describ date to the bo tive measure de, Section 2	ional Board of Bo kwright Mutual Inst ed in this Owner est of my knowled es described in th Kl.	urance Company s Report during th Ige and belief, the is Owner's Repor
I, the undersi Vessel Inspe- of Waltham, M period <u>3</u> Owner has pe in accordanc By signing th implied, cond Furthermore,	gned, holding a valid co stors and the State of W assachusetts have inspe formed examinations	ommission issued lashington and em icted the compon and the compon and taken correc of the ASME Cod inspector nor hi s and corrective or his employer s	d by the Nati ployed by A ents describ ate to the bu tive measurd de, Section 2 s employer i measures du hall be llabl	ional Board of Bo kwright Mutual Insu ed in this Owner est of my knowled es described in th Kl. makes any warran escribed in this O e in any manner f	urance Company s Report during the lge and belief, the lis Owner's Report nty, expressed or wner's Report. for any personal
I, the undersi Vessel Inspe- of Waltham, M period <u>3</u> Owner has pe in accordanc By signing th implied, cond Furthermore, injury or prop	gned, holding a valid co stors and the State of W assachusetts have inspe- to the state of W assachusetts have inspe- to the state of W formed examinations with the requirements is certificate neither the eming the examination neither the inspector n	ommission issued lashington and em octed the compon and the compon and taken correc of the ASME Cod inspector nor hi s and corrective or his employer s of any kind arising	d by the Nati ployed by A ents describ ate to the bi tive measurd de, Section 2 s employer i measures do hall be liabl g from or co	ional Board of Bo kwright Mutual Insu ed in this Owner est of my knowled es described in the Kl. makes any warrau escribed in this O e in any manner f nnected with this	Irance Company s Report during the lige and belief, the is Owner's Report or any personal inspection.

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Manufactured byV	ELAN ENGINEERI	NG COMPANI	ES 2125	Ward Aver	ue Montre	eal, Que
Manufactured for(	Name and Address of Mi ORNELL & UNDER	anufacturer) HILL, INC.	(Owner:	Long Isla	and Lightin	ng Compa
Location of Installation	Name and Address of Pu	irchaser or Owner)	ation.		,	•
Pump or Valve <u>-3"-90(</u>	Nama and Address)			3"		3"* *
		LVE Nominal	Inlet Size	(inch)	Dutlet Size	
	b) Manufacturers'	(c) Canadian				
Series No. or Type	Serial No.	Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
			-		¥	•
(1) <u>B10-07054B-02</u>	2WN #1241	N/A	P2- 3288-1	1-4 2.	<u>N/A</u>	1978.
(3)(4)			<u>Rev. E</u>			
(5)			-			
(6)	· · · · · · · · · · · · · · · · · · ·				······	<u>,</u>
(7) <u> </u>	TALLED	BONNE	T FROI	MTHIS	VAL	//=
(8) <u> </u>				<u></u>		
(10) · OL	J VALVE	MD-V-	-11		<u>, ~</u>	
		•	\$Ze	idip.x	Sup b	
	(Brief description	of service for whi	ch equipment was		498	
(P Cold Working Pressure	^(ressure) psi <u>2160</u> psi at 1	(Temperature) 100°F.	*F or Valve I	Pressure Class	900 L	.B. (1)
(P Cold Working Pressure	2160 psi at 1	00°F.	Γ.,	Pressure Class	900 L	(1)
(P. Cold Working Pressure Pressure Retaining Pieces Mark No.	researces	00°F.		Pressure Class	3 <u> </u>	····· (1)
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings	Material Sp	00°F.	🛟 Manufa	Prassure Class	3 <u> </u>	····· (1)
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings	Material Sp	00°F.	Γ.,	Prassure Class	Remar	····· (1)
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings 	Material Sp	00°F.	🛟 Manufa	Prassure Class	Remar	····· (1)
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings (GE S /N: 9247 H/C: V-1253	Material Sp SA-216 W	00°F.	<pre>Wanufa Vestshell,</pre>	Prassure Class	Remar	····· (1)
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings (GE S /N: 9247 H/C: V-1253	Material Sp SA-216 W	00°F.	Vestshell,	Pressure Class	Remar	ks
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings (GE S /N: 9247 H/C: V-1253	Material Sp SA-216 W	00°F.	Vestshell,	Prassure Class	Remar	ks
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings (GE S /N: 9247 H/C: V-1253	Material Sp SA-216 W	100°F. рес. No.	Vestshell,	Pressure Class	Remar	ks
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings (GE S /N: 9247 H/C: V-1253	Material Sp SA-216 W	00°F.	Vestshell,	Pressure Class	Remar	ks
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings DGE S/N: 9247 H/C: V-1253 	Material Sp SA-216 W	100°F. рес. No.	Vestshell,	Pressure Class	Remar	ks
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings DGE S/N: 9247 H/C: V-1253  H/C: V-1253  (b) Forgings DY S/N: 1241	Material Sp SA-216 W	100°F. рес. No.	Manufa Vestshell,	Pressure Class	Remar	ks
(P) Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings DGE S/N: 9247 H/C: V-1253 (b) Forgings DY S/N: 1241 H/C: Code-N1	Material Sp           SA-216           W           SA-216           SA-216	100°F. рес. No.	Westshell,	Pressure Class	Reman	ks
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings DGE S/N: 9247 H/C: V-1253 H/C: V-1253 (b) Forgings DY S/N: 1241 H/C: Code-N1 IET S/N: 2013	Material Sp SA-216 W	100°F. рес. No.	Manufa Vestshell,	Pressure Class	Remar	ks
(P) Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings DGE S/N: 9247 H/C: V-1253 (b) Forgings DY S/N: 1241 H/C: Code-N1	Material Sp           SA-216           W           SA-216           SA-216	100°F. рес. No.	Westshell,	Pressure Class	Reman	ks
(P Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings DGE S/N: 9247 H/C: V-1253 H/C: V-1253 (b) Forgings DY S/N: 1241 H/C: Code-N1 IET S/N: 2013	Material Sp           SA-216           W           SA-216           SA-216	100°F. рес. No.	Westshell,	Pressure Class	Reman	ks
Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings DGE S/N: 9247 H/C: V-1253  (b) Forgings  DY S/N: 1241 H/C: Code-N1 KET S/N: 2013	Material Sp           SA-216           W           SA-216           SA-216	100°F. рес. No.	Westshell,	Pressure Class	Reman	ks

Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

3

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	······································		
Studs	SA-193 B7	(C of C Attached)	
Aluto	SA-194 2H	(C of C Attached)	
Nut <u>s</u>	SA-194 2H	(L DI C ALLached)	
	······································		
	•		
	·····		
	<del></del>		
(d) Other Parts D ROD H/C: 422A0721	SFA-5.18E70S3	Chemetron Corporatio	<u>n</u>
	017-0.1027000		
	•		
·		+ · · · · · · · · · · · · · · · · · · ·	
<u> </u>			
9. Hydrostatic test Shell: 32	50 psi.		
			<u> </u>
Addenda <u>Winter, 1972</u> (Date) Signed <u>VEL:AN ENGINEER</u> (Manufacturer)	_, Code Case No. <u>#167</u> ING_COMPANIES	J.T.Kmetyko <i>GYLLUU</i> ^{ny} <u>Manager QG Doc.</u>	mber 1974 LC H.1a/
Addenda <u>Winter, 1972</u> (Date) Signed <u>VEL:AN ENGINEER</u>	_, Code Case No. <u>#167</u> ING_COMPANIES	2 Date4 Nove J.T.Kmetyko ////////////////////////////////////	mber 1974
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Addenda WINTER, 1972 (Date) Signed VELAN ENGINEER (Manufacturer) Our ASME Certificate of Authoriza Design information on file at Stress analysis report (Class 1 onl Design specifications certified by PE State MASS, USA Reg Stress analysis certified by (1) PE State Reg (1) Signature not required. List na  I, the undersigned, holding a valia and the State or Province of of (1) 19 structed this pump, or valve, in ac By signing this certificate, neither the equipment described in this I manner for any personal injury or		2 Date A Nove J.T.Kmetyko Manager ise the (N) symbol ex (N) (NFV) F DESIGN MPANIES Montreal, Qu SPECION ational Board of Boiler and Pressu and employed by P INSPECTION ational Board of Boiler and Pressu and employed by p pump, or valve, described in the N Section III. makes any warranty, expressed or ar the Inspector nor his employer s	ebec wre Vessel Inspectors this Data Report on lanufacturer has con- implied, concerning shall be liable in any with this inspection.

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# WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301 (b) Repair Organization P.O. No, Job No, etc.: C31331
  - (c) Type Code Symbol Stamp: NWS Technologies VR And NR
  - (d) Certificate Of Authorization No.: NWS Technologies VR And TR (d) Certificate Of Authorization No.: NWS Technologies VR No 632 And NR No 81
  - (e) Expiration Date: NWS Technologies VR April 3, 2000 And NR April 09, 2000
- 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/Á	1980	Replacement	Yes, Code Class 1

7. Description Of Work Performed: 7. Description Of Work Performed: Spare main steam relief valve Serial No N63790-00-0050 was refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The work was performed in accordance with NWS Technologies, LLC VR and NR programs as follows:

- 1) Disassembled the relief valve to perform the required work.
- 2) Removed existing disc insert Serial No N93185-56-0246 from the relief valve.
- 3) Installed new replacement disc Insert Serial No N93185-56-0253 in the relief valve.
- 4) Removed existing nozzle Serial No N93184-33-0068 from the relief valve.
- 5) Installed new replacement nozzle Serial No N93184-52-0159 in the relief valve.

6) 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 for four (4) inlet studs. Seven (7) inlet studs were determined to be unacceptable during VT-3 visual examination. Note - One (1) inlet stud was missing.

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) Reassembled the relief valve.

10) Installed five (5) new replacement studs for the relief valve inlet joint. Note - The remaining three (3) inlet studs will be installed by Supply System at the time when relief valve is ready to be installed in the plant.

11) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the body to bonnet joint. No evidence of leakage during the pressure test.

12) Tested the relief valve at set pressure of 1175 PSIG. Test results acceptable.

# NOTES -

2

1) Supply System performed VT-1 visual examination on five (5) new replacement studs for the relief valve inlet joint, VT-1 visual examination results acceptable.

Date: 01/30/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1532

	G	MASHINGTON PUBLIC SUPPLY SYS	POWER TEM		` PL/	NN NO 2-15:
FOI	RM NIS-2 OWNER'S RE	PORT FOR REPAIL	RS OR REPL	ACEMEŃI	rs (Back)	•
Tests Conducted	d: Hydrostatic [] Pned Test Pressure: 10 Psig Component Design Pre		ại Operating ł Test Tempe Temperatur	rature: 73º	<b>Othe</b> F	r 📄 Non
e Serial No N63790-	attached NVR-1 Code Data Rep 00-0050. ode Data Report for relief valve \$			Nuclear Pres	sure Relief De	vices" for relief
				•		
				•	•	-
<u> </u>	CER	TIFICATE OF COM	PLIANCE	<u>,</u>	•	,
to the rules of t Type Code Syn	the statements made in the ASME Code, Section abol Stamp: Not Applicable uthorization No.: Not Appli Not Applicable	XI.	are correct a	nd thís repi	acement <b>cor</b>	forms
Prepared By b Date	Audip Singh- Program Lead En	gineer (PLE) Date	By <u>Cirl</u> c Kuldip Sin	gh - Program	Lead Enginee	er (PLE)
		Date			10 1	
Vessel Inspecto of Waltham, Mas period <u>A-10-</u> Owner has perf in accordance v By signing this implied, concern Furthermore, no injury or proper	CERTIFICA ed, holding a valid commons and the State of Wash sachusetts have inspecte to <u>1-10-92</u> ormed examinations and with the requirements of certificate neither the Ins ning the examinations are either the Inspector nor f ty damage or a loss of a cector's Signature	ington and employed d the components of and state to taken corrective m the ASME Code, Se spector nor his employer nd corrective measure his employer shall b ny kind arising from	e National Bo d by Arkwright lescribed in the the best of m leasures desc ction XI. loyer makes a loyer makes a lo	ard of Boi Mutual Insi Nis Owner' Ny knowled ribed in th I in this Ou Manner fe d with this	urance Com s Report du fge and bei is Owner's hty, eXpress wner's Rep or any pers inspection	pany uring the lief, the Report sed or ort. conal

FORM NVR-1 REPORT OF OF NUCLEAR PRESS			10	
				10, 2-1532
1. Work performed by: NWS Technologies, LLC 131 Venture Boulevard, Sparta		hase Order : 301	#C31331_	Kuleinp Singly
2. Work performed for: Washington Public Power Supp	ly System - Wi	NP-2		
3/4. Owner - name, address and identification of nuclear WNP-2, North Power Plant Loop, Richland, WA 993		Washington	Public Power	Supply System
5. a: Repaired pressure relief device: Main Steam Sa	fety Relief Val	ve		
b: Name of manufacturer: Crosby Valve & Gage Co				
c: Identifying nos. HB-65-BP-FN N63790-00-00	50 N/A	steam	6 x 10	1980
(type) (mfr's S/N)	(NB#)	(service)	(size)	(yr.built)
		<u>N/A</u>	<u>N/A</u>	1
	•	denda) (Co	de Cases(s))	(Code Class)
6. ASME Code Section XI applicable for inservice inspec	tion:	1989	N/A	N/A
		(edition)	(addenda)	(Code Case(s))
7. ASME Code Section XI used for repairs, replacements		1989	<u>N/A</u>	N/A
		(edition)	(addenda)	(Code Case(s))
8. Construction Code used for repairs, replacements:		1971	<u> </u>	N/A
	(	edition)	(addenda)	(Code Case(s))
9. Design responsibilities: N/A				
10. Opening pressure: <u>1175 psig</u> Set-pressure adjustment made at: <u>NWS Techno</u>	ologies, LLC	using	steam	
11. Description of work (include name and identifying number of	replacement parts	n. Disassem	bled, lapped s	eats
cleaned, inspected, assembled. Certified set-pressure	and seat tight	ness on stea	am.	
12. Remarks Replacements: gaskets, locking washers, d				494.59.0450)
inlet studs (GQH,K4K), disc holder pin.	isc insert (193	185-56-0253	), NOZZIE (N93	184-52-0159),
CERTIFICATE OI I. Cesar V. Sierra certify that the statements				. [
	made in this re	port are corr	ect and the rep	bair or
replacement of the pressure relief devices described abov National Board Inspection Code "VR" and "NR" rules.	e conforms to	Section XI o	r the ASME Co	and the
	o use the "VR	" ctamp avoi	res April 3, :	2000
	o use the "NR	· · ·		
		Janyczpi	·	I
12/9/97 NWS Technologies, LLC	eo representative	14		ager. QA
	6	//	(title)	
CERTIFICATE O				
Carl R. Enos holding a valid commission	issued by The	National Bo		nd Pressure
Vessel Inspectors and certificate of competency issued by and employed by Hartford Steam Boiler Inspection &	the jurisdiction	of Ten	nessee	
	Insurance Co			
	12/9/97		hat to the best	of my
knowledge and belief, this repair or replacement has been ASME Code and the National Board Inspection Code "VR"		iccordance v	with Section XI	orthe
By signing this certificate, neither the undersigned nor my e	anu ivr rule	5. 20 20 W W 2000	ntr avaraged	
mplied, concerning this repair or replacement described in	this report E	thermore as	iny, expressed	
nor my employer shall be liable in any manner for any pers	uns report, ru	ulennule, ne	nuner une under	isigned
arising from or connected with this inspection.	onar injury, pro	iperty damag	je ur ioss of an	y kina
12/9/97 Oal Eme		. A. N. I. TN :		
Date Inspector's Signature	Commissio	ns (NB (incl end	lorsements), jurisc	ಗರದಂಗ ತಿ೧

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•	CROSBY VALVE & GAGE COMPANY
·	CHOSBY, WRENTHAM, MASS
1973 a	PLAN NO. 2-1532
	FORM NV-1 FOR SAFETY AND SAFETY RELIEF V/LVES thuring Surgh.c44D As Required by the Provisions of the ASME Code Rules 7498
,	DATA REPORT Safety and Safety Relief Valves [7])
-	1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093 Name and Address
	Hodel No. HB-65-BP-FN_Order No. N94275 Contract Date 4/24/79 National Board No. N/A
	General Electric Company, 175 Curtner Ave., 2. Manufactured For San Jose, CA 95125Order No. 205-AJ986 Name and Address
~	3. Owner Washington Public Power Supply System, Richland, Washington 99352
	3. Owner Washington Fubile Flower Supply System, Kichland, Washington 5552
*	4. Location of Plant Hanford Reservation, Richland, Washington 99352
	5. Valve Identification <u>MPL #B22-F013</u> Serial No. <u>N63790-00-0050</u> Drawing No. <u>DS-A-63790 Rev.</u> C
	Type <u>Safety Relief</u> Orifice Size <u>R</u> Pipe Size <u></u> Inlet <u>6</u> Outlet <u>10</u> Safety, Safety Relief, Pilot, Inch Inch Inch Inch Power Actuated
	6. Set Pressure (psig) 1175F
l j	Rated Temperature
	. Stamped Capacity 884,314 <u>9</u> <u>3</u> 20verpressure <u></u> Blowdown (psig) <u>2% to 11%</u> 975 psig (Assembled Valve)
	Hydrostatic Test (psig) Inlet 2370 (Applicable to Valves for Closed Systems Only)
	Pressure Retaining Pieces
	Serial No.Naterial SpecificationBar Stock & ForgingsIdentificationIncluding Type or Grade
	a. GREENER ASTM A105-71 Gr. II Body N93183-35-0069 ASME SA105 Gr. II
	ASTM A105-71 Gr. II
	Bonnet <u>N93407-35-0032</u> ASME_SA105_Gr. II
•••	b. BARXERROMAXERSINGER SECONARMONA DISC Insert N93185-34-0082 ASME SA637 Gr. 718
	· · · · · · · · · · · · · · · · · · ·
4	Nozzle N93184-33-0054 ASME SA182 Gr. F316
æ	Disc Holder*K55484-35-0097
	K62856-35-0088         ASTM A105-71 Gr. II           Spring Washers K62858-35-0032         K62857-35-0053         ASME_SA105 Gr. II
"	Adjusting Bolt
	Spindle Point K62873-35-0050 *N89720-34-0066 ASME SA564-71 Type 630 ASME SA564 Type 630
	c. Spring K62858-35-0032 *N89722-0008 ASTM A304-66 Gr. 4161H
	de Bolting $7 \times 00380116$
	Spindle Ball e. 2000xxxxx K62873-35-0050N93213-0050Stellite #6
	Thrust Bearing Adapter N93409-32-0052 ASME SA193 Gr. B6
	Bonnet Stud (BW5, I17) N93207-0597 thru 0608 ASTM A193-71 Gr. B7
	Bonnet Stud Nut (J87) N93210-0817 thru 0828 ASME SA194 Gr. 2H
	Inlet Stud (EW6) N93216-0599 thru 0610 ASTM A193-71 Gr. B7
	Inlet Stud Nut (EW8) N93218-0603 thru 0614 ASME SA194 Gr. 2H
· •	Adjusting Bolt Button N93411-33-0058 ASME SA193 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 conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda , Code Case No. 1567 & 1711 Class 1 (Date)
Date 11-5-80 Signed Crosby Valve & Gage Co. by R.G. Cadquerne
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 <u>Crosby Valve &amp; Gage Company</u>
Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company
43 Kendrick Street, Wrentham, Massachusetts 02093
Design specifications certified by Boyd P. Brooks
PE State California Reg. No. 13655
Stress report certified by ¹ W. D. Greenlaw
PE State <u>Massachusetts</u> Reg. No. <u>14784</u>
1 Signature not required - list name only.
CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by Factory Mutual Systems* of <u>Norwood</u> , <u>Massachusetts</u> have inspected the pump, or valve, described in this Data Report on <u>12/5</u> , 19 <u>30</u> 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. Further- more, 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 <u>12/5 19 Bo</u> Signed <u>1266</u>
(Inspector) (Nat'l. Bd., State, Prov. and No.) *Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div

ZX00380117

SUPPLY SYSTEM	PLAN No 2-1533
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLAC As Required By The Provisions Of The ASME Code Sec	
1. Owner: Washington Public Power Supply System (WPPSS)	Date: 01/30/98
Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	Sheet: 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	Unit: WNP-2
3. (a) Work Performed By: NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 293 (b) Repair Organization P.O. No, Job No, etc.: C31331	901
(c) Type Code Symbol Stamp: NWS Technologies VR And NR	
(d) Certificate Of Authorization No.: NWS Technologies VR No 632 And NR No 81	*
(e) Expiration Date: NWS Technologies VR - April 3, 2000 And NR - April 09, 2000	
4. Identification Of System: Main Steam (MS) System	- •
5. (a) Applicable Construction Code: ASME Section III, Code Class 1, 1971 Edition with no Add	lenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements Code Case: None	s: 1989 Edition with no Addenda,
6. Identification Of Components Repaired Or Replaced And Replacement Compor	nents

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

7. Description Of Work Performed: 7. Description Of Work Performed: Spare main steam relief valve Serial No N63790-00-0054 was refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The work was performed in accordance with NWS Technologies, LLC VR and NR programs as follows:

1) Disassembled the relief valve to perform the required work.

2) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable for nine (9) inlet studs. Two (2) inlet studs were determined to be unacceptable during VT-3 visual examination. Note - One (1) inlet stud was missing.

3) 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.

4) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable.

5) Reassembled the relief valve.

6) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the body to bonnet joint. No evidence of leakage during the pressure test.

7) Tested the relief valve at set pressure of 1185 PSIG. Test results acceptable.

## NOTES -

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1) Three (3) Inlet studs will be installed by Supply System at the time when relief valve is ready to be installed in the plant."

			TON PUBLIC POWER		PLAN N	o 2-15
,	ORM NIS-2 OWN	FR'S REPORT FO	R REPAIRS O	R REPLACEMEN	ITS (Back)	
	ted: Hydrostatic [ Test Pressure:	🔄 Pneumatic [	Nominal Op		Other	] No.
ve Serial No N63	ee attached NVR-1 Cod /90-00-0054. 1 Code Data Report for I			cement Of Nuclear Pre	ssure Relief Devices	for relie
	<u> </u>	CERTIFICATE	OF COMPLIA	NCE		*
to the rules Type Code S Certificate C Expiration D	at the statements of the ASME Code, Symbol Stamp: Not of Authorization No ate: Not Applicable <u>Utuch</u> Kuldip Singh - Progr	Section XI. Applicable		Kuldip Singh - Progra	Emps im Lead Engineer (PL	
Date	2/2/58		Date	22	98	
Vessel Insp of Waltham, I period 27 Owner has I in accordan By signing t implied, con Furthermore	c igned, holding a viectors and the Stat Massachusetts have <u>D-PF</u> to <u>2</u> performed examina- ce with the require his certificate neith cerning the examina- perty damage or a	e of Washington and inspected the con <u>-11-98</u> a tions and taken co ments of the ASM er the Inspector no nations and correc ctor nor his emplo	sued by the Na d employed by pponents descr nd state to the prective measu Code, Section or his employed tive measures yer shall be lial	tional Board of Bo Arkwright Mutual In ibed in this Owner best of my knowle res described in AXI. r makes any warra described in this ble in any manner	isurance Company er's Report during edge and belief, a this Owner's Rep anty, expressed Owner's Report. for any persona	y the the bort or
<u></u>	Inspector's Signature		Commissions _	7496W;749 National Board, Sta	te, and Endorsements	
Date	1-1					

1. Work performed by:	NWS Techno 131 Venture Bou		ł		nase Ord 01	er#	C31331	Curring Su
- 2. Work performed for: \								ઝમંઘ
• •						ton Pi	uhlic Power	Sunniv Syste
3/4. Owner - name, addr WNP-2. North Power	r Plant Loop, Ric	chland, WA 9	9352-0968		Vasining			
5. a: Repaired pressure		Main Steam		lief Valv	e			
b: Name of manufactu	the second s							
c: Identifying nos. H	IB-65-BP-FN	N63790-00		<u>N/A</u>	stea		<u>6 x 10</u>	
	(type)	(mfr's S/i		(NB#)	(servi		(size)	(yr.bu
d: Construction Code:			1971		<u>I/A</u>	_	<u>N/A</u>	1
	(name/section/di	ivision)	(edition)	(add	lenda)	(Coae	Cases(s))	(Code Class)
6. ASME Code Section X	I applicable for i	inservice insp	pection:		1989		N/A	<u> </u>
				•	dition)	(8	iddenda)	(Code Case(s
7. ASME Code Section X	I used for repair	s, replaceme	ents:	distance in the second second	1989		<u>N/A</u>	N/A
				-	dition)	(a	iddenda)	(Code Case(s)
8. Construction Code use	ed for repairs, rep	placements:			1971	·	<u>N/A</u>	N/A
				(6	dition)	(a	iddenda)	(Code Case(s)
<ol><li>Design responsibilities:</li></ol>	: <u>N/A</u>							
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· ·	CROSBY VALVE	& GAGE COMPANY
	CROSBY, WRENTH	AN, MASS
		PLAN NO. 2-1533
	FORM NV-1 FOR SAFETY AND SAFETY RELIEF	VALVES Chreding Sulfa.C44D code Rules 2/2/98
	As Required by the Provisions of the ASME C	
	DATA REPORT Safety and Safety Relief Valves	
		AL
-	1. Hanufactured By Crosby Valve & Gage Company, 43 Kendrick S Name and Address	t, Wrentham, FA 02093
	Model No. HB-65-BP-FN_Order No. N94275 Contract Date_	4/24/79 National Board No. N/A
	General Electric Company, 175 Cu 2. Manufactured For San Jose, CA 95125	rtner Ave.,
÷	2. Hanufactured For San Jose, CA 95125 Name and Address	Order, No. 203-AJ 980
	3. Owner Washington Public Power Supply System, Ric	hland, Washington 99352
÷ 1	Name and Addresse	
-	4. Location of Plant Hanford Reservation, Richland,	Washington 99352
	5. Valve Identification MPL #B22-F013 Serial No. N63790-00-00	
		ipe Size Inlet 6 Outlet 10
	Safery, Safery Relief, Pilor, Inch Power Actuated	IN Inchast Frankis
ſ	6. Set Pressure (psig) 1185	575° F
		Rated Temperature
	Stamped Capacity 891,750 @ 3_ZOVerpressureE	
	97 Hydrostatic Test (psig) Inlet2370Outlet10	75 psig (Assembled Valve) 00 psig (Body Only)
	(Applicable	to Valves for Closed Systems Only)
	Pressure Retaining Pieces	
	Bar Stock & Forgings Identification	Material Specification Including Type or Grade
	a. Garcings	ASTM A105-71 Gr. II
	BodyN93183-35-0073	ASME SA105 Gr. II
	Bonnet N93407-35-0036	ASTM A105-71 Gr. II ASME SA105 Gr. II
	b. Bancarasarasarasarasarasarasarasarasarasara	
	SUCKERSER Disc Insert N93185-34-0086	ASME SA637 Gr. 718
Ş		ASME SA182 Gr. F316
E	Nozzle <u>N93184-33-0058</u>	
	Disc Holder*K55484-35-0090*N89714-34-0090	AMS 5662B ASTM A105-71 Gr. 11
4.	Spring Washers K62858-35-0036 K62856-35-0092	ASIM AIOS-71 GF. II ASME SA105 Gr. II
*		ASME SA193 Gr. B6
-	Adjusting Bolt	ASTM A564-71 Type 630
	Spindle Point K62873-35-0054 *N89720-34-0093	ASME SA564 Type 630
	c. Spring K62858-35-0036 NX2689-0117	ASTM A304-66 Gr. 4161H
ļ	d. Bolting	<u>ZXOO380137</u>
	e. XCHARKER K62873-35-0054 N93213-0054	Stellite #6
	Thrust Bearing Adapter N93409-32-0056	ASME SA193 Gr. B6
<u> </u>	Bonnet_Stud (I17) N93207-0645 thru 0656	
T	Bonnet Stud Nut (J87) N93210-0865 thru 0876	
1	Inlet Stud . (BW6) N93216-0647 thru 0658	
1		ASTM A194-71 Gr. 2H
- L	Inlet Stud Nut (BW8) N93218-0651 thru 0662	ASME SA194 Gr. 2H

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- Adjusting Bolt, and Thrust Bearing Adapter, remachining of the Body, Spring Washers, Bonnet, and Spindle Assembly, and adding an Adjusting Bolt Button Assembly. New Serialization is required unless indicated by an asterisk.
Original nameplate removed and new nameplate attached.
CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that this valve confector 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 R.G. G. G. and Margaret (N Certificate Holder)
Our ASME Certificate of Authorization No. 1878to use the
symbol expires September 30, 1983 . (Date)
CERTIFICATION OF DESIGN
Design information on file at Crosby Valve & Gage Company
Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company
43 Kendrick Street, Wrentham, Massachusetts 02093
Design specifications certified by Boyd P. Brooks
PE State     California     Reg. No.     13655       Stress report certified by     W.D. Greenlaw
Stress report certified by
¹ Signature not required - list name only.
· · · · · · · · · · · · · · · · · · ·
CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by Factory Mutual Systems* of <u>Norwood</u> , <u>Massachusetts</u> have inspected the pump, or valve, described in this Data Report on <u>11119</u> , 19 <u>40</u> 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. Further-

more, 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. 11919 Date Commissions MASS 1266 Signed___ (Nat'l. Bd., State, Prov. and (Inspector)

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

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			NGTON PUBLIC PLY SYS			, <b>F</b>	PLAN No 2-1534
		OWNER'S REPOR ired By The Provis					`. ,
1. Owner: Wash	ington Public Power S	Supply System (WPPSS)				Date:	01/30/98
Address: WI	NP-2 Plant Site, North	Power Plant Loop, Richla	nd, Washingto	n, 99352		Sheet	:1 of 1
		pply System (WPPSS) N			)	Unit: \	WNP-2
Address: Wi	NP-2 Plant Site, North	Power Plant Loop, Richla	ind, Washingto	n, 99352			¥
		Technologies, LLC, 131 \			nburg, SC	29301	4
		Vo, Job No, etc.: C31		-			
(c) Type Cod	e Symbol Stamp	NWS Technologies VR	And NR			م ^و	•
(d) Certificate	e Of Authorizatio	<b>n No.:</b> NWS Technologi	es VR No 632	And NR No	o 81 👘 🔪		
		ologies VR - April 3, 2000	And NR - Apri	09, 2000		· •	
	<b>n Of Syste<i>m:</i></b> Main					,	•
		Code: ASME Section III,					
(b) Applicabl Code Case:		IE Section XI Utilize	d For Repai	rs Or Re	placem	ents: 1989 Edition v	with no Addenda,
6. Identification	of Components	Repaired Or Repla	ced And Re	placeme	ent Com	ponents	
Name Of	Name Of	Manufacturer's	National	Other	Year	Repaired,	ASME Code
Component	Manufacturer	Serial No	Board	I.D.	Built	Replaced Or	Stamped

Component	Manufacturer	Serial No	Board No	I.D.	Built	Replaced Or Replacement	Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0057	N/A	N/A	1980	Replacement	Yes, Code Class 1
	,						
						•	a.

7. Description Of Work Performed: 7. Description Of Work Performed: Spare main steam relief valve Serial No N63790-00-0057 was refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The work was performed in accordance with NWS Technologies, LLC VR and NR programs as follows:

1) Disassembled the relief valve to perform the required work.

2) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable for eight (8) inlet studs. Two (2) inlet studs were determined to be unacceptable during VT-3 visual examination. Note - Two (2) inlet studs were missing.

3) 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.

4) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable.

5) Reassembled the relief valve.

6) Installed four (4) new replacement studs for the relief valve inlet joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the body to bonnet joint. Leakage was observed during the pressure test. The leakage was evaluated to be acceptable.

8) Tested the relief valve at set pressure of 1195 PSIG. Test results acceptable.

#### NOTES -

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1) Supply System performed VT-1 visual examination on four (4) new replacement studs for the relief valve inlet joint. VT-1 visual examination results acceptable.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM	PLAN No 2-153
SUFFLI SISIEM	
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Ba	ck)
rests Conducted: Hydrostatic       Pneumatic       X       Nominal Operating Pressure       Component Design Pressure: 1195 Psig       Test Temperature: 73° F         Component Design Pressure: 1195 Psig       Temperature: 575° F	Other 🔝 None
Remarks: 1) See attached NVR-1 Code Data Report "Report Of Repair And Replacement Of Nuclear Pressure Rel	ief Devices" for relief
e Serial No N63790-00-0050. See attached NV-1 Code Data Report for relief valve Serial No N63790-00-0057.	1
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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. Type Code Symbol Stamp: Not Applicable	•
Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable	
	5, .
Prepared By Juicip Such Signed By Leven Solution Signed By Kuldip Singh - Program Lead Engineer (PLE)	ngineer (PLE)
DateDate	
CERTIFICATE OF INSERVICE INSPECTION	
l, the undersigned, holding a valid commission issued by the National Board of Boiler and Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance	
of Waltham, Massachusetts have inspected the components described in this Owner's Repo period <u>メールータデー</u> to <u>メーバータデー</u> and state to the best of my knowledge and	ort during the
Owner has performed examinations and taken corrective measures described in this Owr	ner'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, exp	
implied, concerning the examinations and corrective measures described in this Owner's Furthermore, neither the Inspector nor his employer shall be liable in any manner for any	
injury or property damage or a loss of any kind arising from or connected with this inspec	
N 100 TH	
Inspector's Signature Commissions 74/6 w II National Board, State, and End	dorsements
Date 2-11-98	,
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	ORIM NVR-7 OF NUC	CLEAR PRE			DEVIC	ES PLAN	1 NO. :	2-15;
1. Work performed by	y: NWS Techr 131 Venture B				ase Order 1	r#C3133	1 Juni	<u></u>
2. Work performed fo	r: Washington Pu	ublic Power Si	upply Syste	em - WNF	-2			
3/4. Owner - name, a WNP-2, North Po	ddress and identii wer Plant Loop, R	fication of nuc Richland, WA 9	lear power 99352-0961	plant: <u>V</u> 8	/ashingto	n Public Pow	er Supply	Syster
5. a: Repaired press		Main Steam	n Safety Re	lief Valve				
b: Name of manufa	acturer: Crosby V	Valve & Gage	Co.					
c: Identifying nos.	HB-65-BP-FN	N63790-00	0-0057	N/A	steam	6x	10	1980
	(type)	(mfr's S	-	(NB#)	(service		e)	(yr.bui
d: Construction Co	and the second se		1971	<u>N/</u>	<u>A</u>	N/A		1
	(name/section	/division)	(edition)	(addei	nda) (C	Code Cases(s))	(Cod	e Class)
6. ASME Code Sectio	n XI applicable for	r inservice ins	pection:	19	989	N/A	۲	N/A
			•		ition)	(addenda)	(Code	Case(s)
7. ASME Code Section	n XI used for repa	irs, replaceme	ents:	19	989	N/A	٨	Ι/Α 🚶
				(ed	ition)	(addenda)	·(Code	Case(s)
8. Construction Code	used for repairs, re	eplacements:	• .	19	971	<u>N/A</u>	<u> </u>	<u>I/A</u>
		٠		(edi	tion)	(addenda)	(Ccae	Case(s)
9. Design responsibiliti	ies: N/A							
Set-pressure adjus	•		hnologies.		using		i seats	
11. Description of wor cleaned, inspected	k (include name and i , assembled. Cert	dentifying numbe	er of replacem sure and se	ent parts): eat tightne	Disasser	mbled. lapped	l seats.	
Set-pressure adjus 11. Description of wor	k (include name and i , assembled. Cert nents: gaskets, lo	identifying numbe tified set-press ocking washers	er of replacem sure and se s, inlet stud	ent parts): eat tightne Is (GQH).	Disasser	mbled. lapped	l seats.	
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	CROSBY VALVE	
		AM, HASS
•	WRENTH	
_ •		PLAN NO: 2-1534
	FORM NV-1 FOR SAFETY AND SAFETY RELIEF As Required by the Provisions of the ASME C	VALVES Files Suply Q.C44D ode Rules AV18
	DATA REPORT	
	Safety and Safety Relief Valves	
	1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick S Name and Address	
	Hodel No. HB-65-BP-FN Order No. N94275 Contract Date	4/24/79 National Board No. N/A
	General Electric Company, 1/5 Curtner	Order No. 205-AJ986
¥	Name and Address	• •
	3. Owner Washington Public Power Supply System, Richla	and, Washington 99352
¥.	Name and Address 4. Location of Plant Hanford Reservation, Richland, Wash:	ington 99352
¢		
	5. Valve Identification <u>MPL #B22-F013</u> Serial No. <u>N63790-00-00</u>	057 Drawing No. DS-A-63790 Rev.
		ipe Size inler 6 Outlet 10
	Safety, Safety Relief, Pilot, Inch. Power Accuated	
ļ	1.4	5750 F
	6. Set Pressure (psig)	Rated Temperature
	Stamped Capacity_ 899,185 <u>@</u> 3_20verpressure	Blowdown (psig) 2 % to
	97	75 psig (Assembled V
		to Valves for Closed Systems Only)
	Pressure Retaining Pieces	
	Serial No. Bar Stock & Forgings Identification	Material Specification Including Type or Grade
ł	Bar Stock & Forgings Identification a. Chevinge	ASTM A105-71 Gr. II
1	Body <u>N93183-35-0076</u>	ASME SA105 Gr. II
1	Bonner N93407-35-0039	ASTM A105-71 Gr. II ASME SA105 Gr. II
	b. farrenterenterenterenterenterenterenteren	
1	KUPPERCARCES Disc Insert N93185-34-0089	ASME SA637 Gr. 718
ļ		
	Nozzle <u>N93184-33-0061</u>	ASME SA182 Gr. F316
	Disc Holder*K55484-35-0083*N89714-34-0093	AMS 5662B
a.	Spring Washers K62858-35-0039 K62856-25-0095	ASTM A105-71 Gr. II ASME SA105 Gr. II
S.	Adjusting Bolt N93410-33-0064	ASME SA193 Gr. B6
	Spindle Point K62873-35-0057 * *N89720-34-0073	<ul> <li>ASTM A564-71 Type 630</li> <li>ASME SA564 Type 630</li> </ul>
	c. SpringK62858-35-0039 *N89722-0015	ASTM A304-66 Gr. 4161 H
	d. Bolting	ZX00380090
•	Spindle Ball e. CHARTER K62873-35-0057 N93213-0057	Stellite #6
	Thrust Bearing Adapter N93409-32-0059	ASME SA193 Gr. B6
	Bonnet Stud (BW5, I17) N93207-0681 thru 0692	ASTM A103-71 Gr. B7
	Bonnet Stud Nut (J87) N93210-0901 thru 0912	ASME SA194 Gr. 2H
	Inlet Stud . (BW6) N93216-0683 chru 0694	
	Inlet Stud Nut (BW8) N93218-0687 thru 0698	ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
	Adjusting Bolt Button N93411-13-0000	ASME SALVE OF. 55

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فيسعدهم	riginal nameplate removed and	new nameplate at	crached.		Rud N163790	43
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to .III Cla	certify that the statements may the rules of construction of th , Div. 1, 1971 Edition $ss_1$ $e_{1-5-20}$ Signed	ne ASME Code for 3 n, Addenda <u>No Add</u> (Dat	Nuclear   lenda Le)	Power Plan , Code Cas	t Components e No. <u>156</u>	, Sect 7 <u>&amp; 1</u>
		(N Certificate )	Holder)			
Our	ASME Certificate of Authorizat	ion No	.878		to use the	NV
`sy=	bol expires <u>September 30, 1983</u> (Date)	•		•	•	
				a		
		CERTIFICATION OF	DESIGN			
Des	ign information on file at	Crosby Valve & Ga	age Comp	any	÷	•
Str	ess analysis report (Class 1 on	ly) on file at	Crosby	Valve &	Gage Company	,
4	3 Kendrick Street, Wrentham, M	lassachusetts 0	2093			
Des	ign specifications certified by	Bovd P.	Brooks		·	
PE	State California	Re	g. No	1365	5	
Ser	ess report certified by 1	W.D. Gre	enlaw [*]		1	
	State Massachusetts	Re				
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

Date: 01/30/98 Sheet: 1 of 1 Unit: WNP-2

- 3. (a) Work Performed By: NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301
  - (b) Repair Organization P.O. No, Job No, etc.: C31331
  - (c) Type Code Symbol Stamp: NWS Technologies VR And NR
  - (d) Certificate Of Authorization No.: NWS Technologies VR No 632 And NR No 81
  - (e) Expiration Date: NWS Technologies VR April 3, 2000 And NR April 09, 2000
- 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	Manufacturor's Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Valve	Crosby	N63790-00-0058	N/A	N/A	1980	Replacement	Yes, Code Class

7. Description Of Work Performed: 7. Description Of Work Performed: Spare main steam relief valve Serial No N63790-00-0058 was refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The work was performed in accordance with NWS Technologies, LLC VR and NR programs as follows:

1) Disassembled the relief valve to perform the required work.

2) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination, results acceptable for six (6) inlet studs. Five (5) inlet studs were determined to be unacceptable during VT-3 visual examination. Note - One (1) inlet stud was missing.

3) 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.

4) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable.

5) Reassembled the relief valve.

6) Installed three (3) new replacement studs for the relief valve inlet joint. Note - The remaining three (3) Inlet studs will be installed by Supply System at the time when relief valve is ready to be installed in the plant.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the body to bonnet joint. No evidence of leakage during the pressure test.

8) Tested the relief valve at set pressure of 1195 PSIG. Test results acceptable.

# NOTES -

1) Supply System performed VT-1 visual examination on three (3) new replacement studs for the relief valve inlet joint. VT-1 visual examination results acceptable.

			ICTON PUBLIC POWI	ER M	· PLAN	No 2-15
	FORM NIS-2 OWNE	R'S REPORT F	OR REPAIRS (	OR REPLACE	EMENTS (Back)	•
Tests Condi	ucted: Hydrostatic Test Pressure: 1 Component Des	<b>] Pneumatic</b> [ 0 Psig	X Nominal C		sure Other [ ure: 73 ⁰ F	Nor
ive Serial No N6	) See attached NVR-1 Code 3790-00-0058. V-1 Code Data Report for re			lacement Of Nucl	ear Pressure Relief Device	es" for relief
		CEPTIEICAT	E OF COMPLI			
We certify	that the statements n				his replacement confo	me
to the rules Type Code	s of the ASME Code, S Symbol Stamp: Not Ap	Section XI. oplicable	,		mo replacement comos	mə
	Of Authorization No.: Date: Not Applicable	Not Applicable				
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Date	2/2/98	·	., Date		2/98	
		<u></u>				
1	CE	RTIFICATE OF	INSERVICE IN	SPECTION	<u></u>	
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1. Work performe	ed by: N	WS Techn	ologies, Ll	ĽC	Purcha	se Order #	C31331	Keren S
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b: Name of ma c: Identifying r		er: Crosby \ I-65-BP-FN	Valve & Gage N63790-00	the second s	N/A	steam	6 x 10	198
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d: Constructio	n Code:	ASME Sec.	•	1971	N/A	<u> </u>	<u>N/A</u>	1
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7. ASME Code S	ection XI	used for repa	iirs, replacem	ents:		89	N/A (addenda)	N/A (Code Case(
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9. Design respons	sibilities:	N/A	•					
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Set-pressure			- NWS Tec	chnologies.	LLC	using	steam	
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PLAN NO. 2-1535

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Queip Sugs GAGE COMPANY CROSBY VALVE 8 CROSBY q.c.-... FORM MY-1 FOR SAFETY AND SAFETY RELIEF V/LVES As Required by the Previsions of the ASHE Code Rules DATA REPORT Salety and Salety Reliaf Valves 1. Henufactured By Crosby Value & Gage Company, 63 Kendrick St., Mrenthan, MA 02093 Name and Address Hedel.He.HB-65-BP-FH_Order Ne. 194275 Contract Date 4/24/79 Mational Board He. N/A General Electric Company, 175 Curtner Ave., San Jose, CA 95125 Outpart Order No. 205-4 1986 2. Manufactured Tor. - ---Mag 3. Ower_Washington_Public_Power_Supply_System, Richland, Washington_ 99352 Hame and Address Hanford Reservation, Richland, Washington 99352 4. Location of Plant 5. Velve Identification MPL #822-F013Seriel No. H63790-00-0058Draving No. DS-A-63790 Rev. C Orifice Size R tipe Size ____ Inlet 6 Safaty Relief Outlet 10 Selety, Salet Seliel, Pilot, Power Actualed 575⁰ 1195 6. Set Pressure (pair) Asted Jemperature _Blowdown (psig)__27 to 117 Stamped Capacity_____. 899,185 # 3 toverpressure --975 psig (Assembled Valve) 1100 psig (Body Only) 2370 Hydrostatic Tast (raig) Inlet_ Outlet (Applicable to Valves for Closed Systems Only) Pressure Bataining Piezon Material Specification Including Type or Grade Secial No. Bar Stock & Forgings Identification ASTE \$195572rCr11II Jody N93183-35-0077 ASTH A105-71 Gr. II N93407-35-0040 Jennet b. Marshall and a state of the MAXMAXIAN Disc Insert N93185-34-0090 ASHE SA637 Gr. 7 N93184-33-0062 ASHE SA182 Gr. F3. Nezzle Disc Holder*K55484-35-0093 *N89714-34-0094 ANS 5662B ASTM A105-71 Gr. II ASHE SA105 Gr. II K62836-35-0096 Spring Manhers \$62558-35-0040_ ASHE SA193 Cr. B6 N93410-33-0065 Adjusting Bolt ASTH AS64-71 Type 630 Spindle Point K62573-35-0058 *N89720-34-0070 c. Spring K62858-35-0040 *N89722-0016 ASTH A304-66 Gr. 4161H Bolting Spindle Ball K62873-35-0058 N93213-0058 Stellite #6 Thrust Bearing Adapter N93409-32-0060 ASHE SA193 Gr. B6 ASTH A193-71 Cr . B7 Bonnet Stud (BW5. 117) N93207-0693 thru 0704 Bonnet Stud Nut (J87) N93210-0913 thru 0924 ASHE SA194 Gr. 2H ASH 54191-71 Cr. 87 ASH 54191 Cr. 87 ASH A194-71 Cr. 21 ASHE 54194 Cr. 2H Inlet Stud (BW6) N93216-0695 thru 0706 Inlet Stud Nut (BW8) N93218-0699 thru 0710 <u>5</u> F Adjusting Bolt button R93411-33-0067 Serti LASHE SA193 Gr. 36 x63518-33-0067

tun imunmitin Unly

Valve originally built against Crosby Order No. <u>N103600</u>, Assembly No. <u>N56000</u>. Valve modification consists of replacement of the Disc Insert, Norsle, 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.

S/N N 6 3790 - 00 - 0058. Undip Suite

CERTIFICATE	OF COMPLIANCE	
We certify that the statements made in this to the rules of construction of the ASME Cod III, Div. 1, <u>1971</u> Edition, Addenday Class <u>1</u> Date //-5-20Signed Crosby Val (N Certif	le for Nuclear P <u>No Addenda</u>	Code Case No. 1567 1-1711
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 Cros	by Valve & Gage Compar	1 <b>y</b>		
Stress analysis report (lass 1 only)	on file at Crosby Val	Ive & Gage	Company	
43 Kendrick Street. Wrentham, H	assachusetts 02093	•		N
Design specifications certified by				
PZ StateCalifornia				•
Stress report certified by	W.D. Greenlaw			
PE State Hassachusetts	Reg. No	14784		
FE State	Reg. No			

¹Signature not required - list name only.

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#### CERTIFICATE OF SHOP INSPECTION

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(Children)

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ZX0038275

MAB

I, the undersigned, holding a valid commission issued by the National Board of Board Pressure Vessel Inspectra and the State or Province of <u>Hamsachusetts</u> and employed by <u>Factory Mitual Systems</u> of <u>Norwood, Hassachusetts</u> have inspected the pump, or valve, cestribed in this Data Report on <u>11/25</u>. 92.4 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, cr valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificite, neither the Inspector nor his employer makes any warrant, expressed or implied, criterning 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.

1900 Date 71/25 . . . . . Man 24: 12711 1260 MJSSIM MJSS Signed Cos (Inspector) (Nat'l. Bd., State, Prov. and No.)

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*Arbirright-Boston Hanufacturers Hutual Insurance Company - Hutual Boiler & Machinery Div.

		<b>_</b>			-	ŀ	PLAN No 2-15
			PPLY SYS	POWER TEM			
		OWNER'S REPOR red By The Provis					
1. Owner: Wash	nington Public Power Si	upply System (WPPSS)				Date:	01/30/98
	-	Power Plant Loop, Richla		n, 99352	1	Shee	t: 1 of 1
2. Plant: Washir	igton Public Power Sup	ply System (WPPSS) N	uclear Power P	iant (WNP	)	Unit:	WNP-2
Address: W	NP-2 Plant Site, North	Power Plant Loop, Richla	and, Washingto	n, 99352.			
		Technologies, LLC, 131		ard, Sparta	nburg, SC	29301	
		o, Job No, etc.: C3		2			
		NWS Technologies VR		h	я		
		No.: NWS Technolog			o 81		• .
	n Date: NWS Techno n Of System: Main S	logies VR - April 3, 2000	And NR - Apri	109, 2000			
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		AND' ACINE CANHAN III	Code Class 1	1071 644	on usih no	Addonda Codo Cas	sa' Nona
		ode: ASME Section III, E Section XI Utilize					
	le Edition Of ASM	ode: ASME Section III, E Section XI Utilize					
(b) Applicabl Code Case:	e Edition Of ASM None	E Section XI Utilize	d For Repai	rs Or Re	eplacem	ents: 1989 Edition	
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7. Description Of Work Performed: 7. Description Of Work Performed: Spare main steam relief valve Serial No N63790-00-0062 was refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The work was performed in accordance with NWS Technologies, LLC VR and NR programs as follows:

1) Disassembled the relief valve to perform the required work.

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 for eleven (11) Inlet studs. One (1) inlet studs were determined to be unacceptable during VT-3 visual examination.
 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.

4) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable.

5) Reassembled the relief valve.

6) Installed one (1) new replacement stud for the relief valve inlet joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the body to bonnet joint. Leakage was observed during the pressure test. The leakage was evaluated to be acceptable.

8) Tested the relief valve at set pressure of 1205 PSIG. Test results acceptable.

# NOTES-

1) Supply System performed VT-1 visual examination on one (1) new replacement stud for the relief valve inter joint. VT-1 visual examination results acceptable.

			NGTON PUBLIC POW	er M		PLAN No 2-1	1536
FOR	RM NIS-2 OWNER				CEMENTS (I	Back)	
Tests Conducted	l: Hydrostatic Test Pressure: 10 Component Desig	] <i>Pneumatic</i> ( Psig	X Nominal C		essure	· —	one
ve Serial No N63790-0	Ittached NVR-1 Code D 00-0062. Ide Data Report for relie			placement Of N	iclear Pressure I	Relief Devices" for re	lief
		CERTIFICAT	E OF COMPLI	IANCE	<u> </u>		7
to the rules of th Type Code Sym	the statements ma the ASME Code, So bol Stamp: Not App uthorization No.: N Not Applicable	e <b>ction XI.</b> licable	ier's Report are	e correct and	<b>I this</b> replacem	ent conforms	
	Kutain (	Lead Engineer (PL	•	Kuldip Singl	- Program Lead	Engineer (PLE)	
Date		·	Date				
	CER	TIFICATE OF	INSERVICE IN				7
Vessel Inspector of Waltham, Mass period <u>2-10-</u> Owner has perfo in accordance w By signing this o implied, concern Furthermore, ne	ed, holding a valid rs and the State o sachusetts have ins	Commission I f Washington a spected the co is and taken o nts of the ASM the Inspector I ons and corre r nor his empl	issued by the N nd employed by omponents desc and state to the corrective meas AE Code, Section nor his employed totive measures loyer shall be lia	lational Boal y Arkwright N cribed in this e best of my sures descri on XI. er makes an s described i able in any n	utual Insurand Owner's Re knowledge a bed in this O y warranty, e n this Owner nanner for ar	ce Company port during the and belief, the wner's Report expressed or r's Report. ay personal	
<u></u>	ector's Signature		Commissions	74864 National Bo	ard, State, and t	T'P II	
Data 1/11/4	al l						
Date							

• • • _	IWS Technologies, L 31 Venture Boulevard, Spa		Purchase Ò	rder # C3133	1 Buldiep Su
	Ashington Public Power Si		•	•	
3/4. Owner - name, addre WNP-2, North Power	ess and identification of nuc Plant Loop, Richland, WA	lear power 99352-0968	plant: <u>Wash</u> ir 3	ngton Public Pow	er Supply Systen
	rer: Crosby Valve & Gage	Co.			-
c: Identifying nos. HE	3-65-BP-FN N63790-00 (type) (mfr's S		and a second sec	eam 6 x rvice) (size	
d: Construction Code:	•	1971 (edition)	(N/A (addenda)	N/A (Code Cases(s))	(Code Class)
6. ASME Code Section XI	applicable for inservice ins		1989	<u>N/A</u>	·N/A
7. ASME Code Section XI	used for repairs, replacem	ents:	(edition) 1989	(addenda) N/A	(Code Case(s) N/A
	for repairs, replacements:		(edition) 1971	(addenda) N/A	(Çode Case(s)) N/A
			(edition)	(addenda)	(Code Case(s))
9. Design responsibilities:	N/A				<u>``</u>
10. Opening pressure: 120 Set-pressure adjustment	and the second	chnologies,	LLC u	sing steam	•
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	clude name and identifying numbi sembled. Certified set-press				i seats.
cleaned, inspected, ass	sembled. Certified set-pres	sure and se	eat tightness or	n steam.	
cleaned, inspected, ass		sure and se	eat tightness or	n steam.	
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	CROSBY VAL	VE & GAGE COMPANY
CROSBY		NTHAM', MASS
		PLAN NO. 2-15
	FOR SAFETY AND SAFETY RE	
. As Required b	y the Provisions of the A	CIP INTERPORTATION SIL
Sa Sa	DATA REPORT fety and Safety Relief Val	ives Ion Returnation Unit
	•	
1. Manufactured By Crosby Valve	6 Gage Company, 43 Kendr: Name and Address	ick St., Wrentham, MA 02093
Model No. HB-65-BP-FN Order	•••••••••••••••••••••••••••••••••••••••	Date 4/24/79National Board No. N/A
General	Electric Company, 175	Curtner Ave
2. Manufactured For San Jose	, CA 95125 Name and Address	Order No. 205-AJ986
3. Owner Washington Public Po		Ichland, Washington 99352
A. ARHET UPOTITIVE COLL & OPTICE T	Name and Address	,, ,, , , , , , , , , , , ,
4. Location of PlantHanford	Reservation, Richland	l, Washington 99352
• •	2-E013Serial No NE2700-	-00-0062Drawing No. DS-A-63790 Rev.
Type Safety Relief		R Pipe Size - Inler 6 Outlet 10
Safety, Safety Relief, Pi Power Actuated	1100, 10	ach Inch Inch Inch
6. Set Pressure (psig)	1205	5,50
•		Rated Temperature
Stamped Capacity 906,621	<u> </u>	<u></u>
Hydrostatic Test (psig) Inlet	2370 Gutlet	C:5 poig (Accembled Value) 1100 poig (Redy Only)
, ,		able to Valves for Closed Systems Only
Pressure Retaining Pieces	<b>•</b> • • • •	
Bar Stock & Forgings	· Serial No. Identification	Naterial Specification Including Type or Grade
a. XXXXXXXXX		ASTM A105-71 Gr. 11
Body	<u>N93183-35-0081</u>	ASME SA105 Gr. II
Bonnet	N93407-35-0044	ASTM A105-71 Gr. II ASME SALC5 Gr. II
b. MXXXHEEHHMHHXXXXIII	· · · · · · · · · · · · · · · · · · ·	
Arcorocanty Disc Insert	N93185-34-0094	ASME SA637 Gr. 718
	N93184-33-0066	ASNE SA182 Gr. F316
Nozzle		
Disc Holder*K55484-35-0088	*N89714-34-0119	AMS 5662B
Spring Washers K62858-35-004	4 K62856-35-0100 K62857-35-0065	ASTM A105-71 Gr. 11 ASME SA105 Gr. 11
•	•	
Adjusting Bolt	<u>N93410-33-0069</u>	<u>ASME SA193 Gr. B6</u> ASTM A564-71 Type 630
Spindle Point K62873-35-006	2 *N89720-34-0074	ASME SAS64 Type 630
c. Spring K62858-35-0044	*N89722-0020	ASTM A304-66 Gr. 416111
d. Bolting		
e. XmaxXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	N93213-0062	stellite %00380156
Thrust Bearing Adapter	N93409-32-0064	ASME SA193 GrR6
Bonnet Stud (BW5,	117) N93207-0741 thru	0752 AST \$193-71 Br 87
	J87) N93210-0961 thru	0972 ASME SA194 Gr. 2H+
Bonnet Stud Nut		
	BW6) N93216-0743 thru	0754 ASTA A193-71 Gr B7
Inlet_Stud (		ASTM A194-71 Gr. 2H
		0754 ASTA A193-71 Gr. 27 ASTA A194-71 Gr. 2H 0758 ASME SA194 Gr. 2H ASME SA194 Gr. 2H

Π.

	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.
- SŞ	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in this report are correct and that this valve conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda , Code Case No. 1567 & 1711 Class 1 (Date)
	Date 11-5-80 Signed Crosby Valve & Gage Co. by. N.A. Casaward
	Our ASME Certificate of Authorization No. 1878 to use the NV
	symbol expires <u>September 30, 1983</u> . (Date)
ŕ	
	CERTIFICATION OF DESIGN
	Design information on file at Crosby Valve & Gage Company
	Stress analysis report (Class 1 only) on file at <u>Crosby Valve &amp; Gage Company</u> 43 Kendrick Street, Wrentham, Massachusetts 02093
	Design specifications certified by Boyd P. Brooks
	PE State California 'Reg. No. 13655
N. K.	Stress report certified by W.D. Greenlaw
	PE State <u>Massachusetts</u> Reg. No. <u>14784</u>
	¹ Signature not required - list name only.
_	·· · · · · · · · · · · · · · · · · · ·
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 <u>Massachusetts</u>
	and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on <u>11/18</u> , 19 <u>80</u> and state that to the best of my knowledge and belief, the N Certificate Holdet 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. Further- more, 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.
·••,	Signed Ochieven Commissions MASS 1266 (Inspector) (Nat'l. Ed., State, Prov. and No.)
	*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Di
	ZX00380157

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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

Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 Date: 01/30/98 Sheet: 1 of 1 Unit: WNP-2

- 3. (a) Work Performed By: NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301
  - (b) Repair Organization P.O. No, Job No, etc.: C31331
  - (c) Type Code Symbol Stamp: NWS Technologies VR And NR
  - (d) Certificate Of Authorization No.: NWS Technologies VR No 632 And NR No 81
  - (e) Expiration Date: NWS Technologies VR April 3, 2000 And NR April 09, 2000
- 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	N63790-00-0134 (N56000-01-0037)	N/A	N/A	1973	Replacement	Yes, Code Class 1

7. Description Of Work Performed: 7. Description Of Work Performed: Spare main steam relief valve Serial No N63790-00-0134 was refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The work was performed in accordance with NWS Technologies, LLC VR and NR programs as follows:

1) Disassembled the relief valve to perform the required work.

2) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable for seven (7) inlet studs. One (1) inlet studs were determined to be unacceptable during VT-3 visual examination. Note - Four (4) inlet studs were missing.

3) 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.

4) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable.

5) Reassembled the relief valve.

6) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the body to bonnet joint. No evidence of leakage during the pressure test.

7) Tested the relief valve at set pressure of 1175 PSIG. Test results acceptable.

# NOTES -

1) Five (5) inlet studs will be installed by Supply System at the time when relief valve is ready to be installed in the plant.

2) "Bailly" relief valve Serial No N56000-01-0037 was modified (upgraded) to Serial No N63790-00-0134 by Crosby.

3) ASME Section III, Code Class 1, 1971 Edition with Summer 1972 Addenda In accordance with the NV-1 (Pre - Modification) Code Data Report for relief valve Serial No N56000-01-0037.

		PLAN No 2-15
	WASHINGTON PUBLIC POWER	÷ .
	SUPPLY SYSTEM	• •
<b></b>		2
FO	ORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (B	ack)
Tests Conduct	ted: Hydrostatic Pneumatic X Nominal Operating Pressure	Other No.
	Test Pressure: 10 Psig Test Temperature: 73° F	
	Component Design Pressure: 1175 Psig Temperature: 575° F	
		191 5g
Remarks: 1) Se Ve Serial No N6379	ee attached NVR-1 Code Data Report "Report Of Repair And Replacement Of Nuclear Pressure R	elief Devices" for relie
	pair And Replacement To Nuclear Components And Systems In Nuclear Power Plants" Certification	Report (QC 292A)
cumenting the modi	dification (upgrade) work performed by Crosby for relief valve Serial No Serial No N63790-00-0134	
See attached NV-1	1 Code Data Report for relief valve Serial No N56000-01-0037 (N63790-00-0134).	
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	CERTIFICATE OF COMPLIANCE	
	at the statements made in this Owner's Report are correct and this replaceme	nt conforms
	of the ASME Code, Section XI.	•
	ymbol Stamp: Not Applicable	
	f Authorization No.: Not Applicable ate: Not Applicable	
	are. Not Applicable	
Prepared By	Julant Such Signed By Julaip Su	26
	Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead	Engineer (PLE)
Date		
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	CERTIFICATE OF INSERVICE INSPECTION	•
I. the undersid		d Pressure
	igned, holding a valid commission issued by the National Board of Boiler an	
Vessel Inspec	igned, holding a valid commission issued by the National Board of Boiler an ctors and the State of Washington and employed by Arkwright Mutual Insurance lassachusetts have inspected the components described in this Owner's Rep	e Company port during the
Vessel Inspec of Waltham, Ma period <u>2-10</u>	igned, holding a valid commission issued by the National Board of Boiler an ctors and the State of Washington and employed by Arkwright Mutual Insurance lassachusetts have inspected the components described in this Owner's Rep 2995 to 2911-995 and state to the best of my knowledge and	e Company port during the nd belief, the
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Vessel Inspec of Waltham, Ma period <u>2-10</u> Owner has per in accordance By signing this implied, conce Furthermore, f injury or prop	igned, holding a valid commission issued by the National Board of Boiler and ctors and the State of Washington and employed by Arkwright Mutual Insurance hassachusetts have inspected the components described in this Owner's Rep 2016 to 2017 and state to the best of my knowledge and erformed examinations and taken corrective measures described in this Owner's e with the requirements of the ASME Code, Section XI. his certificate neither the Inspector nor his employer makes any warranty, ex- erning the examinations and corrective measures described in this Owner's neither the Inspector nor his employer shall be liable in any manner for any poerty damage or a loss of any kind arising from or connected with this inspec- tor. Commissions <u>MSU W'7H86 M2</u>	e Company bort during the nd belief, the wner's Report xpressed or s Report. y personal ection.

		AR PRESSURE		ICES PLAN	1 NO 2-19
1. Work performed by:	NWS Technolo 131 Venture Boulev	<u> </u>	Purchase Ord	der#C31331	Churcip Su Trig
2. Work performed for: V			· · · · · · · · · · · · · · · · · · ·		•
3/4. Owner - name, addre				ton Public Power	Supply Syst
WNP-2. North Power	Plant Loop, Richla	ind, WA 99352-09	68		
5. a: Repaired pressure	relief device: Ma	in Steam Safety R	elief Valve		
b: Name of manufactu					
c: Identifying nos. H		63790-00-0134	<u>N/A</u> ster		
	(type)	(mfr's S/N)	(NB#) (serv		(yr.b
d: Construction Code:			<u> </u>	N/A	1
	(name/section/divisi	on) ( <del>e</del> dition)	(addenda)	(Code Cases(s))	. (Code Clas
6. ASME Code Section X	I applicable for inse	ervice inspection:	1989	<u>N/A</u>	N/A
•			(edition)	(addenda)	(Code Case)
7. ASME Code Section X	l used for repairs, r	eplacements:	1989	<u>N/A</u>	<u>N/A</u>
	I for an align south	•.	(edition)	(addenda)	(Code Case(
8. Construction Code use	a for repairs, replac	cements:	1971	<u>N/A</u>	<u>N/A</u>
			(edition)	(addenda)	(Code Case
9. Design responsibilities:	N/A			* *	•
				sembled, lapped s	seats.
cleaned, inspected, as	sembled. Certified	set-pressure and	seat tightness on		seats.
	sembled. Certified	set-pressure and	seat tightness on		seats.
cleaned, inspected, as 12. Remarks Replacemer	ssembled, Certified nts: gaskets, locking CER	set-pressure and g washers, disc ho IFICATE OF COM	seat tightness on older pin. MPLIANCE	steam.	
cleaned, inspected, as	certify that the re relief devices de	set-pressure and g washers, disc ho FIFICATE OF COM statements made scribed above com	seat tightness on older pin. MPLIANCE in this report are	steam.	pair or
cleaned, inspected, as 12. Remarks Replacement Cesar V. Sierra replacement of the pressure National Board Inspection National Board Certificate	CER CER certify that the re relief devices de Code "VR" and "NI of Authorization No	set-pressure and g washers, disc ho TIFICATE OF COM statements made scribed above com R" rules. 5. 632 to use	seat tightness on older pin. MPLIANCE in this report are oforms to Section the "VR" stamp	steam. correct and the re XI of the ASME C expires April 3.	pair or ode and the 2000.
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cleaned, inspected, as 12. Remarks Replacement Cesar V. Sierra replacement of the pressu National Board Inspection National Board Certificate National Board Certificate	CER CER certify that the re relief devices de Code "VR" and "NI of Authorization No	set-pressure and g washers, disc ho TIFICATE OF CON statements made scribed above con R" rules. b. 632 to use b. 81 to use	seat tightness on older pin. MPLIANCE in this report are forms to Section the "VR" stamp the "NR" stamp	steam. correct and the re XI of the ASME C expires <u>April 3.</u> expires <u>April 9.</u>	pair or ode and the 2000.
cleaned, inspected, as 12. Remarks Replacement Cesar V. Sierra replacement of the pressu National Board Inspection National Board Certificate National Board Certificate	certify that the certify that the certify that the code "VR" and "NI of Authorization No of Authorization No chnologies, LLC	set-pressure and g washers, disc ho TIFICATE OF COM statements made scribed above com R" rules. 5. 632 to use	seat tightness on older pin. MPLIANCE in this report are forms to Section the "VR" stamp the "NR" stamp	steam. correct and the re XI of the ASME C expires <u>April 3.</u> expires <u>April 9.</u>	pair or ode and the 2000. 2000. hager, QA
cleaned, inspected, as 12. Remarks Replacement Cesar V. Sierra replacement of the pressu National Board Inspection National Board Certificate National Board Certificate National Board Certificate National Board Certificate National Board Certificate	CER CER certify that the certify that the re relief devices de Code "VR" and "NI of Authorization No of Authorization No chnologies, LLC	set-pressure and g washers, disc ho FIFICATE OF CON statements made scribed above con R" rules. 632 to use 632 to use 81 to use	seat tightness on older pin. MPLIANCE in this report are forms to Section the "VR" stamp the "NR" stamp the "NR" stamp contact esentative	steam. correct and the re XI of the ASME C expires <u>April 3.</u> expires <u>April 9.</u> Mar	pair or ode and the 2000. 2000. hager, QA
cleaned, inspected, as 12. Remarks Replacement 1 Cesar V. Sierra replacement of the pressure National Board Inspection National Board Certificate National Board Certificate 12/9/97 NWS Tech Cate (repair organism)	CER CER CER CER CER Certify that the re relief devices de Code 'VR'' and ''NI of Authorization No of Authorization No chnologies, LLC	set-pressure and g washers, disc ho TIFICATE OF CON statements made scribed above con R" rules. 632 to use 632 to use 631 to use (Lunh to (authorized repr	seat tightness on older pin. MPLIANCE in this report are forms to Section the "VR" stamp the "NR" stamp the "NR" stamp ethe "NR" stamp ethe "NR" stamp ethe "NR" stamp ethe "NR" stamp	steam. correct and the re XI of the ASME C expires April 3. expires April 9. Mar (title)	pair or ode and the 2000. 2000. hager, QA
cleaned, inspected, as 12. Remarks Replacement Cesar V. Sierra replacement of the pressure National Board Inspection National Board Certificate National Board Certificate	CER certify that the certify that the re relief devices de Code "VR" and "NI of Authorization No of Authorization No chnologies, LLC mization) CER holding a valid	set-pressure and g washers, disc ho TIFICATE OF CON statements made scribed above con R" rules. 632 to use 632 to use 631 to use 15555 to use 155555 to use 15555 to use 155555 to use 155555 to use 15555 to use 15555 to use 155555 to use 15555 to use 155555 to use 155555 to use 155555 to use 155555 to use 155555 to use 155555 to use 1555555555555555555555555555555555555	seat tightness on older pin. MPLIANCE in this report are forms to Section the "VR" stamp the "NR" stamp the "NR" stamp the "R" stamp the "Ecripn d by The Nationa	steam. correct and the re XI of the ASME C expires April 3. expires April 9. Mar (title)	pair or ode and the 2000. 2000. hager, QA
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cleaned, inspected, as         12. Remarks         Replacement         I       Cesar V. Sierra         replacement of the pressu         National Board Inspection         National Board Certificate         12/9/97       NWS Teo         Carl R. Enos         Vessei Inspectors and certificate         Carl R. Enos         Vessei Inspectors and certificate         and employed by         Hartfor	CER certify that the certify that the certify that the re relief devices de Code "VR" and "Ni of Authorization No of Authorization No of Authorization No chnologies, LLC chnologies, LLC chnologies, LLC chnologies, LLC chnologies, LLC chnologies, LLC chnologies, LLC chnologies, LLC	set-pressure and g washers, disc ho TIFICATE OF CON statements made scribed above con R" rules. . 632 to use <u>632</u> to use <u>633</u> to use <u>634</u> to use <u>635</u> to use <u>635</u> to use <u>636</u> to use <u>636</u> to use <u>636</u> to use <u>637</u> to use <u>638</u> to use <u>638</u> to use <u>639</u> to use <u>639</u> to use <u>630</u> to use <u>630</u> to use <u>631</u> to use <u>632</u> to use <u>632</u> to use <u>632</u> to use <u>633</u> to use <u>633</u> to use <u>634</u> to use <u>635</u> to use <u>635</u> to use <u>635</u> to use <u>635</u> to use <u>635</u> to use <u>635</u> to use <u>636</u> to use <u>636</u> to use <u>637</u> to use <u>638</u> to use <u>638</u> to use <u>638</u> to use <u>639</u> to use <u>630</u> to use <u>631</u> to use <u>631</u> to use <u>631</u> to use <u>631</u> to use <u>632</u> to use <u>632</u> to use <u>635</u> to use <u>635</u> to use <u>636</u> to use <u>636</u> to use <u>636</u> to use <u>637</u> to use <u>638</u> to use <u>639</u> to use	seat tightness on older pin. MPLIANCE in this report are forms to Section the "VR" stamp the "NR" stamp the "NR" stamp ethe "N	steam. correct and the re XI of the ASME C expires April 3. expires April 9. Man (litle) I Board of Boiler a Tennessee rd. CT have inst	epair or ode and the 2000. 2000. ager, QA and Pressure spected the t of my
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cleaned, inspected, as         12. Remarks         Replacement         I       Cesar V. Sierra         replacement of the pressu         National Board Inspection         National Board Certificate         12/9/97       NWS Teo         Carl R. Enos         Vessei Inspectors and certificate         Carl R. Enos         Vessei Inspectors and certificate         And employed by         Hartfor         ASME Code and the Nation         By signing this certificate, re	CER certify that the certify that the re relief devices de Code "VR" and "NI of Authorization No of Authorization No of Authorization No chnologies, LLC chnologies, chnologies, c	set-pressure and g washers, disc ho TIFICATE OF CON statements made scribed above con R" rules. . 632 to use <u>632</u> to use <u>633</u> to use <u>634</u> to use <u>635</u> to use <u>636</u> to use <u>636</u> to use <u>637</u> to use <u>638</u> to use	seat tightness on older pin. MPLIANCE in this report are forms to Section the "VR" stamp the "NR" stamp the "NR" stamp ethe stamp eth	steam. correct and the re XI of the ASME C expires April 3. expires April 9. Mar (litle) I Board of Boiler a Tennessee rd. CT have inst ate that to the best ce with Section Xi arranty, expressed	epair or ode and the 2000. 2000. ager, QA and Pressure spected the t of my I of the d or
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لاسلام بلي الملكة 3]10/94 TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER	PLANTS
1. Work performed by <u>Crosby Valve &amp; Gage Company</u> 43 Kendrick St. Wrentham. MA 02093 (Name and Address) (Repair organization's P.O. No., Job No., etc.). <u>NV4000020</u>	
2. Owner WASHINGTON PUBLIC POWER RICHLAND, WA 99352-0968 (Name and Address)	
3. Name and Identification of Nuclear Power Plant HANFORD #2	
4. Address of Nuclear Power Plant_RICHLAND , WA         5. a. Identifying NosN63790-00-0134 -	1973
	(Year Built)
Tests conducted: Hydrostatic (X) · Pneumatic () Design Pressure () Pressure2370.0 psi 7. Identification of SystemMAIN_STEAM	
8. Applicable Section(s) of ASME Code, 19 <u>71</u> Edition Addenda <u>NO</u> Code Case	
9. Description of work	
(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)         ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.         10.Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:         PART PART NO. MODIFIED TO PART NO.         BODY       N90118       N93183-43-0126         BONNET       N89717       N93407-41-0052         SPINDLE ASSY       K55465       K62873-46-0060         SPR.WASHER       N89723       K62857-41-0200         SPR.WASHER       N89723       K62858-31-0006         PART       PART       PART NO.         PART       PART NO.       REPLACED WITH         NOZZLE       N89713       N93185-52-0202         SPRING       NX2689       NX2689-0134         THR.BRG.ADAPT.N89725       N93400-34-0008         ADJ.BOLT       N89726       N93410-36-0132         ADJ.BOLT       N89726       N93411-33-0008	
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	
Introduct         N89725         N93409-34-0008           ADJ.BOLT         N89726         N93410-36-0132           ADJ.BOLT         BUTT. COMMERCIAL         N93411-33-0008           ADJ.BOLT ASSY         COMMERCIAL         K63618-31-0001           INLET STUD         N89727         N93216/NAD QTY 10	

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Q.C.-292, REV. A Certificate Holder's Serial No.___N63790.00.0134 SHEET 2 OF 2 STAR WILLIAM TOTAL SULING STREET, SUCH ST 77.19.07 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and all design, material, and workmanship on this MOD. _ conforms to the applicable section of the ASME Code. (repair/replacement) Signed_O 1924 aur 11 (Authorized Rep. of Repair Organization) (Title) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by ____ Factory Mutual of Norwood, Massachusetts _ have inspected the repair or replacement described in this report on Feb 24, 19 94 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this report. Furthermore, neither the Inspector nor his employed shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. **Factory Mutual Systems** 199 Date Signed Commissions (Inspector) (Nat'I. Bd., State, Prov. and No.) 3. C a star and the restriction of the star of the star and the star and the star of the star and the star 119 12 LA 196 18775 3. 1.72 80,03.8

PLAN NO. 2-1537 Auciep Bur 1, 2/2/78

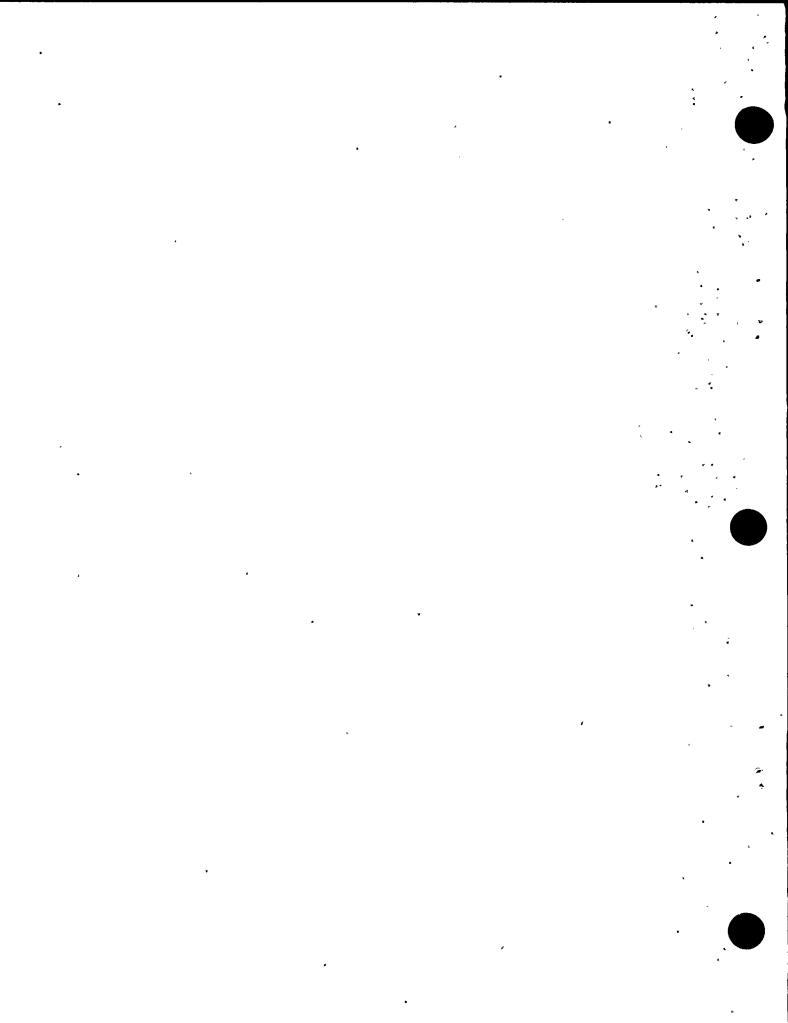
WPPSS S/N	WPPSS Set	Bailly S/N	Bailly Set
, N63790-00-0134	1175	N56000-01-0037	1175
N63790-00-0135	1205	N56000-01-0099	1130
N63790-00-0136 .	1205	N56000-02-0043	1205
N63790-00-0137	1195	N56000-02-0042	1195
N63790-00-0138	1185	N56000-01-0038	1175
N63790-00-0139	1165	N56000-01-0100	1130

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CROSBY	CROSBY V	ALVE & GAGE COMPAN RENTHAM, MASS CARCOUPS
FORM NV As requ	•1 FOR SAFETY AND SAF	ETY RELIEF VALVES Q.C44A W ASME Code Rules
	DATA REPORT Safety and Safety Relie	
1. Manufactured By Crosby Valve	& Gage Co., 43 Ken Name and Addres	drick St., Wrentham, Mass. 02093
Model No. HB-65-BP-FN	•	286 Contract Date6/28/71
General Elect	ric Company	
2. Manufactured For San Jose, Cal Na	ne and Address	Order No205-AD148
		illy Generating Station Nuclear I,
	Name and Address	Baileytown, Indiana
4. Location of Plant _Baileytown,	Indiana	
5. Valve Identification MPL #B-22-FO	13 Securit NG. N56000-	01-0037 Drawing No H-56000 Rev. C
Type Safety Relief	Orifice Siz	e <u>R</u> Pipe Size - Inter 6 Outlet 1 Inch Inch Inch
6. Set Pressure (PSIG) 1175		\$75°
	•	Rated Temperature .
• •	Lhs. Hr. + 3 Ov	erpressure Blowdown (PSIG) 5%
Sut. Stewm		
Hydrostatic Test (PSIG) Inlet	2370	complete Valve 825
7. The material, design, construction and	workmanship comply with A	SME Code, Section III.
Class Edition	1971	Addenda Date Summer 1972
Class Edition	1971	•
		,
KMXIK		Addenda Date <u>Summer 1972</u>
KMXXX	ning Components	Addenda Date <u>Summer 1972</u> Material Specification Including Type or Grade
XXXXX Pressure Containing of Pressure Retain	ning Components Serial No.	Addenda Date <u>Summer 1972</u> Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASME SA-105 Gr. II
XXXXX Pressure Containing or Pressure Retain 2.XXXXXXXXX Body	ning Components Sertal No. Identification <u>N90118-32-0008</u>	Addenda Date <u>Summer 1972</u> Material Specification Including Type or Grade ASTM A-105-71 Gr. II
XXXX Pressure Containing or Pressure Retain 2.XXXXXXXXX Forgings Body BonnetXXXXXXX	ning Components Serial No. Identification	Addenda Date <u>Summer 1972</u> <u>Material Specification</u> Including Type or Grade <u>ASTM A-105-71 Gr. II</u> <u>ASTM A-105 Gr. II</u> <u>ASTM A-105-71 Gr. II</u>
XXXX Pressure Containing or Pressure Retain a.XXXXXXXX BonnetXXXXXXX b. Bar Stock and Forgings	ning Components Serial No. Identification <u>N90118-32-0008</u> <u>N89717-32-0021</u>	Addenda Date Summer 1972 Material Specification Including Type or Grade ASTM A-105-71 Gr. II <u>ASME SA-105 Gr. II</u> ASTM A-105-71 Cr. II <u>ASME SA-105 Gr. II</u>
XXXXX Pressure Containing or Pressure Retain a.XXXXXXXXX Body BonnetXXXXXXX b. Bat Stock and Forgings XXXXXXXXXX Disc Insert	ning Components Serial No. Identification <u>N90118-32-0008</u> <u>N89717-32-0021</u>	Addenda Date Summer 1972 Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASME SA-105 Gr. II ASTM A-105-71 Cr. II ASTM A-105-71 Cr. II ASME SA-105 Gr. II ASTM A-461-65 Type 630 ASTM A-182-71 F316
XXXXX Pressure Containing or Pressure Retain a.XXXXXXXXX BonnetXXXXXXXX b. Bar Stock and Forgings XXXXXXXXXXXXX Disc Insert Nuzzle	ning Components Serial No. Identification <u>N90118-32-0008</u> <u>N89717-32-0021</u> <u>N89715-31-0028</u> <u>N89713-32-0039</u>	Addenda Date Summer 1972 Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASME SA-105 Gr. II ASTM A-105-71 Cr. II ASTM A-105-71 Cr. II ASTM A-105 Gr. II ASTM A-461-65 Type 630 ASTM A-182-71 F316 ASME SA-182 F316
XXXX Pressure Containing or Pressure Retain 2.XXXXXXXX Forgings Body BonnetXXXXXX b. Bat Stock and Forgings XXXXXXXXXX Disc Insert Nuzzle Disc Holder Top	ning Components Serial No. Identification <u>N90118-32-0008</u> <u>N89717-32-0021</u> <u>N89715-31-0028</u> <u>N89713-32-0039</u> <u>N89714-32-0037</u> <u>N89724-32-0037</u>	Addenda Date Summer 1972 Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASME SA-105 Gr. II ASTM A-105-71 Cr. II ASTM A-105-71 Cr. II ASME SA-105 Gr. II ASTM A-461-65 Type 630 ASTM A-182-71 F316 ASME SA-182 F316 AMS 5662 B ASTM A-105-71 Gr. II
XXXX Pressure Containing or Pressure Retain 2.XXXXXXXXX Forgings Body BonnetXXXXXXX b. Bar Stock and Forgings XXXXXXXXXXX Disc Insert Nuzzle Disc Holder	ning Components Serial No. Identification N90118-32-0008 N89717-32-0021 N89715-31-0028 N89713-32-0039 N89714-32-0037 N89724-32-0037 N89723-32-0008	Addenda Date Summer 1972 Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASME SA-105 Gr. II ASTM A-105-71 Gr. II ASTM A-105-71 Gr. II ASTM A-461-65 Type 630 ASTM A-182-71 F316 ASME SA-182 F316 AMS 5662 B ASTM A-105-71 Gr. II ASME SA-105 Gr. II
XXXX Pressure Containing or Pressure Retain a.XXXXXXXX Forgings Body BonnetXXXXXXX b. Bar Stock and Forgings XXXXXXXXX Disc Insert Nuzzle Disc Holder Top	ning Components Serial No. Identification <u>N90118-32-0008</u> <u>N89717-32-0021</u> <u>N89715-31-0028</u> <u>N89713-32-0039</u> <u>N89714-32-0037</u> <u>N89724-32-0037</u>	Addenda Date Summer 1972 Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASME SA-105 Gr. II ASTM A-105-71 Cr. II ASTM A-105-71 Cr. II ASTM A-162-71 F316 ASTM A-182-71 F316 ASTM A-182 F316 AMS 5662 B ASTM A-105-71 Gr. II ASTM A-193-71 Gr. B6 ASTM SA-193 Cr. B6
XXXXX Pressure Containing or Pressure Retain a.XXXXXXXXX Body BonnetXXXXXXX b. Bat Stock and Forgings XXXXXXXXXXX Disc Insert Nozzle Disc Holder Spring Washers Bottom	ning Components Serial No. Identification N90118-32-0008 N89717-32-0021 N89715-31-0028 N89713-32-0039 N89714-32-0037 N89724-32-0037 N89723-32-0008	Addenda Date Summer 1972 Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASTM A-105-71 Gr. II ASTM A-105-71 Gr. II ASTM A-105-71 Gr. II ASTM A-182-71 F316 ASTM A-182 F316 ASTM A-105-71 Gr. II ASTM A-105-71 Gr. II ASTM A-105-71 Gr. II ASTM A-105-71 Gr. II ASTM A-103-71 Gr. B6 ASTM SA-193-71 Gr. B6
XXXX Pressure Containing or Pressure Retain a.XXXXRXEX Forgings Body BonnetXXXXXXX b. Bar Stock and Forgings XXXXXXXXXXXXX b. Bar Stock and Forgings XXXXXXXXXXXXXX Disc Insert Nuzzle Disc Holder Spring Washers Adjusting XXXXX Bolt	ning Components Serial No. Identification <u>N90118-32-0008</u> <u>N89717-32-0021</u> <u>N89715-31-0028</u> <u>N89713-32-0039</u> <u>N89714-32-0037</u> <u>N89724-32-0037</u> <u>N89723-31-0008</u> <u>N89726-33-0046</u>	Addenda Date Summer 1972 Material Specification Including Type or Grade ASTM A-105-71 Gr. II ASME SA-105 Gr. II ASTM A-105-71 Cr. II ASTM A-105-71 Cr. II ASTM A-162-71 F316 ASTM A-182-71 F316 ASME SA-182 F316 AMS 5662 B ASTM A-105-71 Gr. II ASTM A-193-71 Gr. B6 ASME SA-193 Cr. B6

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Identification       Including Type or Grad         c. Spring       NX2689-0042       ASTM A-304-66 Gr. 4         d. Bolting	Identification       Including Type or Grade         Spring       NX2689-0042       ASTM A-304-66 Cr. 416         A. Bolting       ASTM A-193-71 Gr. B7         Inlet Stud       N89727-0433 thru 0444       ASME SA-194 Cr. B7         Inlet Stud       N89728-0637 thru 0444       ASME SA-194 Cr. B7         Bonnet Stud       N89728-0637 thru 0448       ASME SA-194 Cr. B7         Bonnet Stud       N89718-0437 thru 0448       ASME SA-194 Cr. 2H         Bonnet Stud       N89719-0439 thru 0450       ASME SA-194 Cl. 2H         OTHER PARTS       Spindle Ball       N89721-0046       Stellite 6         BASK & FORGINGS       ASTM A-193-71 Gr. B6         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. B6         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. B6         Manufacturer       Manufacturer       QA Manager         Crificate of Authorization No.       331       expires November 9, 1974         Intust Bearing Modesige of the State or Province of MASS.       And employed by Manager         Crificate of Authorization No.       331       expires November 9, 1974         Intust Bearing Adapter       Insyrance Co.*. Haltham, Mass.       have provide by Mass.         Manager       Signed Crosby Valve & Gage Co. By Mathanager		· · ·	BACK Page - C		
Identification       Including Type or Grad         c. Spring       NX2689-0042       ASTM A-304-66 Gr. 4         d. Bolting	Identification       Including Type or Grade         Spring       NX2689-0042       ASTM A-304-66 Cr. 416         A. Bolting					
c. Spring <u>NX2689-0042</u> <u>ASTM A-304-66 Gr. 4</u> d. Boling c. GROKRANXCONCORNENTATIONOGONEX Inlet Stud <u>NUT</u> <u>N89727-0433</u> thru 0444 ASTM A-193-71 Gr. 1 Inlet Stud <u>NUT</u> <u>N89728-0437</u> thru 0444 <u>ASTM A-193-71 Gr. 7</u> <u>Bounet Stud</u> <u>NUT</u> <u>N89728-0437</u> thru 0448 <u>ASTM A-193-71 Cl. 2</u> <u>Bounet Stud</u> <u>NUT</u> <u>N89719-0439</u> thru 0448 <u>ASTM A-193-71 Cl. 2</u> <u>Bounet Stud</u> <u>NUT</u> <u>N89719-0439</u> thru 0448 <u>ASTM A-193-71 Cl. 2</u> <u>Bounet Stud Nut</u> <u>N89719-0439</u> thru 0448 <u>ASTM A-193-71 Cl. 2</u> <u>Bounet Stud Nut</u> <u>N89719-0439</u> thru 0450 <u>ASTM A-193-71 Cl. 2</u> <u>OTHER PARTS</u> <u>Spindle Ball</u> <u>N89721-0046</u> <u>Stellite 6</u> <u>BARS &amp; PORGINGS</u> <u>Thrust Bearing Adapter</u> <u>N89725-32-0035</u> <u>ASTM A-193-71 Gr. 86</u> <u>We certify that the statements made in this report arc correct.</u> <u>Date _10-31</u> <u>1973</u> <u>Signed Crosby Valve &amp; Gage Co. By</u> <u>Adama</u> <u>Valuet Vassel Inspectors and the State or Province of <u>Bass</u><u>A</u> and employed by <u>Manufacturet</u><u>QA Manager</u> <u>Inspectod the equipment described in this traper and the localer and <u>Pressure Vassel Inspectors and the State or Province of <u>Bass</u><u>A</u> and employed by <u>Manufacturet</u><u>Nassectionery 102-3</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>J</u><u>102</u><u>J</u><u>102</u><u>J</u><u>J</u><u>J</u><u>J</u><u>J</u><u>J</u><u>J</u><u>J</u><u>J</u><u>J</u><u>J</u><u>J</u><u>J</u></u></u></u>	Spring       NX2689-0042       ASTM A-304-66 Gr. 416         A. Bolting		Serial No. or	Material Specification		
d. Boling         c. GROKKRANCKOCKXKKOCKXKMOKKMOKKAMOKKAMOKKAMOKKAMOKKAMOKKAMOK	d. Bolting         A. Bolting         Inlet Stud       N89727-0433 thru 0444         ASTM A-193-71 GT. B7         Inlet Stud       N89728-0637 thru 0444         ASTM A-194-71 CI. 2H         Bonnet Stud       N89718-0437 thru 0448         ASTM A-194-71 CI. 2H         Bonnet Stud       N89718-0437 thru 0448         ASTM A-194-71 CI. 2H         Bonnet Stud       N89719-0439 thru 0450         ASTM A-194-71 CI. 2H         Bonnet Stud       N89719-0439 thru 0450         ASTM A-194-71 CI. 2H         Bonnet Stud Nut       N89719-0439 thru 0450         ASTM A-194-71 CI. 2H         Bonnet Stud Nut       N89719-0439 thru 0450         ASTM A-193-71 CF. B6         Correct State Name         ASTM A-193-71 CF. B6         Thrust Bearing Adapter         N89725-32-0035         ASTM A-193-71 CF. B6         Certify that the statements made in this report arc correct.         Manufacturer         Manufacturer         Value / 0- 31       1973         Signed Crosby Valve & Gage Co. By         Manufacturer         Manufacturer         Manufacturer         November 9, 1974         Signed Crosby Valve & Gage Co		Identification	Including Type or Grade		
CROKKENSKERSKERSKERSKERSKERSKERSKERSKERSKERSKER	SEQUERENEXCECENEXTRODUCENDERGENEX     ASTM A-193-71 GT. B7     Inlet Stud     N89727-0433 thru 0444     ASTM SA-193-71 GT. B7     ASTM SA-193-71 GT. B7     ASTM SA-194-71 CI. 2H     ASTM SA-193-71 CI. 2H     Bonnet Stud     N89718-0437 thru 0448     ASTM SA-193-71 CI. 2H     Bonnet Stud     N89718-0437 thru 0448     ASTM SA-193-71 CI. 2H     Bonnet Stud     N89719-0439 thru 0450     ASTM SA-194-71 CI. 2H     ASTM SA-194-71 CI. 2H     ASTM A-194-71 CI. 2H     OTHER PARTS     Spindle Ball     N89719-0439 thru 0450     ASTM A-193-71 GF. B6     ASTM A-193-71 GF. B7     ASTM A-193-71     ASTM A-193-71 GF. B7     A	c. Spring	NX2689-0042	ASTM A-304-66 Gr. 4161		
ASTM A-193-71 GF. 1 Inlet Stud Nut N89727-0433 thru 0444 ASMF. SA-194-71 C1. Inlet Stud Nut N89728-0437 thru 0448 ASMF SA-194-71 C1. Bonnet Stud Nut N89718-0437 thru 0448 ASMF SA-194-71 C1. Bonnet Stud Nut N89719-0439 thru 0450 ASMF SA-194-71 C1. 2 Bonnet Stud Nut N89719-0439 thru 0450 ASMF SA-194-71 C1. 2 Bonnet Stud Nut N89721-0046 Stellite 6 BARS & PORGINGS Thrust Bearing Adapter N89725-32-0035 ASTM A-193-71 GF. E Thrust Bearing Adapter N89725-32-0035 ASTM SA-193 GF. RA We certify that the statements made in this report arc correct. Date <u>10-31</u> 197-3 Signed Crosby Valve & Gage Co. By Affect and Manufacturet Wanufacturet QA Manager GERTIFICATE 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 <u>Mass</u> and employed by Manufacturet Mass Index in this trapped to C	ASTM A-193-71 Gr. B7 ASTM SA-193 Gr. B7 ASTM SA-193 Gr. B7 ASTM SA-194-71 C1. 2H Bonnet Stud Nut N89728-0437 thru 0448 ASTM SA-194-71 C1. 2H Bonnet Stud Nut N89718-0437 thru 0448 ASTM SA-194-71 C1. 2H Bonnet Stud Nut N89719-0439 thru 0450 ASTM SA-194-71 C1. 2H Bonnet Stud Nut N89719-0439 thru 0450 ASTM SA-194-71 C1. 2H Bonnet Stud Nut N89719-0439 thru 0450 ASTM SA-194-71 C1. 2H OTHER PARTS Spindle Ball N89721-0046 Stellite 6 BARS & PORCINGS Thrust Bearing Adapter N89725-32-0035 ASTM SA-193-71 Gr. B6 Thrust Bearing Adapter N89725-32-0035 ASTM SA-193-71 Gr. B6 Thrust Bearing Adapter N89725-32-0035 ASTM SA-193 Gr. B6 Ceffully that the statements made in this report arc correct. Manufacturer QA Manager Cefficiente of Authorization Nu. 331 expires November 9, 1974 GERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the National Bond of Boiler and Pressure Versign finded the statement of the statement of Manager cettificate of Authorization Nu. 331 expires November 9, 1974 GERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the National Bond of Boiler and Pressure Versign finded the statement described in this Report on Co-1 Mass. have inspective that equipment described in this Data Report on Co-1 with and employed by Mutual Boiller & Machinery Inspirence Co-*, Waltham, Mass. have inspective the equipment described in this Data Report on Co-1 with and the statement in accordance with the applicable Subsection of ASME Section III. By signing this certificate, neither the Inspector for Mates and wattanty, ex- pressed of Implied. Concerning the equipment described in this Data Report. Parthermore, neither the Inspector on his employer shall be liable in any mannet for any personal liquy of property damage or a loss of any kind attaining from e connected with this inspiretion. By signing this certificate, neither the Inspector nor his Apport.Parthermore, neither the Inspector on his employer shall be liable in any ma	d. Bolting		٠ 		
Inlet Stud       N89727-0433 thru 0444       ASTM A-194-71 CL. 2R         Inlet Stud Nut       N89728-0437 thru 0448       ASTM A-193-71 CL. 2R         Bonnet Stud       N89718-0437 thru 0448       ASTM A-193-71 CL. 2R         Bonnet Stud Nut       N89718-0439 thru 0448       ASTM A-193-71 CL. 2R         Bonnet Stud Nut       N89719-0439 thru 0450       ASTM A-193-71 CL. 2R         OTHER PARTS         Spindle Ball       N89721-0046       Stellite 6         BARS & FORGINGS         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 CL. 2R         We certify that the statements made in this report arc correct.         Date /0-31 19/23       Signed Crosby Valve & Gage Co. By       Manufacturer         QA Manager       November 9, 1974         Signed Crosby Valve & Gage Co. By       Manufacturer         QA Manager         Certificate of Authorization No.       331       expires November 9, 1974         November 9, 1974 <td <="" colspan="2" td=""><td>Inlet Stud       N89727-0433 thru 0444       ASTM A-194-71 C1. 2H         Inlet Stud Nut       N89728-0437 thru 0448       ASTM A-194-71 C1. 2H         Bonnet Stud       N89718-0437 thru 0448       ASTM A-193-71 C7. B7         Bonnet Stud       N89718-0437 thru 0448       ASTM A-193-71 C7. B7         Bonnet Stud       N89718-0439 thru 0450       ASTM A-193-71 C7. B7         Bonnet Stud       N89719-0439 thru 0450       ASTM A-193-71 C7. B7         Bonnet Stud       N89721-0046       Stellite 6         BARS &amp; FORGINGS       ASTM A-193-71 Gr. B6         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. B6         Cettify that the statements made in this report arc correct.       Manufacturer         Manufacturer         Manufacturer         ACT S7         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer       Manu</td><td>e. STORECENESCOCIECENCE</td><td>· · · · · · · · · · · · · · · · · · ·</td><td>ASTN A-102-71 CM P7</td></td>	<td>Inlet Stud       N89727-0433 thru 0444       ASTM A-194-71 C1. 2H         Inlet Stud Nut       N89728-0437 thru 0448       ASTM A-194-71 C1. 2H         Bonnet Stud       N89718-0437 thru 0448       ASTM A-193-71 C7. B7         Bonnet Stud       N89718-0437 thru 0448       ASTM A-193-71 C7. B7         Bonnet Stud       N89718-0439 thru 0450       ASTM A-193-71 C7. B7         Bonnet Stud       N89719-0439 thru 0450       ASTM A-193-71 C7. B7         Bonnet Stud       N89721-0046       Stellite 6         BARS &amp; FORGINGS       ASTM A-193-71 Gr. B6         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. B6         Cettify that the statements made in this report arc correct.       Manufacturer         Manufacturer         Manufacturer         ACT S7         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer       Manu</td> <td>e. STORECENESCOCIECENCE</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>ASTN A-102-71 CM P7</td>		Inlet Stud       N89727-0433 thru 0444       ASTM A-194-71 C1. 2H         Inlet Stud Nut       N89728-0437 thru 0448       ASTM A-194-71 C1. 2H         Bonnet Stud       N89718-0437 thru 0448       ASTM A-193-71 C7. B7         Bonnet Stud       N89718-0437 thru 0448       ASTM A-193-71 C7. B7         Bonnet Stud       N89718-0439 thru 0450       ASTM A-193-71 C7. B7         Bonnet Stud       N89719-0439 thru 0450       ASTM A-193-71 C7. B7         Bonnet Stud       N89721-0046       Stellite 6         BARS & FORGINGS       ASTM A-193-71 Gr. B6         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. B6         Cettify that the statements made in this report arc correct.       Manufacturer         Manufacturer         Manufacturer         ACT S7         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer         Manufacturer       Manu	e. STORECENESCOCIECENCE	· · · · · · · · · · · · · · · · · · ·	ASTN A-102-71 CM P7
Inlet Stud Nut       N89728-0437 thru 0448       ASTM A-193-71 CF. 1         Bonnet Stud       N89718-0437 thru 0448       ASTM A-193-71 CF. 1         Bonnet Stud Nut       N89719-0439 thru 0450       ASTM A-194-71 CL. 2         OTHER PARTS	Inlet Stud Nut       N89728-0637 thru.0448       ASYM A-193-71 GT. B7         Bonnet Stud       N89718-0637 thru 0448       ASYM A-193-71 GT. B7         Bonnet Stud       N89718-0637 thru 0448       ASYM A-193-71 GT. B7         Bonnet Stud       N89718-06439 thru 0450       ASYM A-193-71 GT. B7         Bonnet Stud       N89719-0449       SYME SA-193 GT. B7         OTHER PARTS       Spindle Ball       N89721-0046       Stellite 6         BARS & FORGINGS       ASYM A-193-71 GT. B6         Thrust Bearing Adapter       N89725-32-0035       ASYM A-193-71 GT. B6         Cefetuly that the statements made in this report arc correct.       Manufacturer         Mate       OTHER SATE SATE SATE SATE SATE SATE SATE SATE	Inlet Stud	N89727-0433 thru 0444	ASME SA-193 Gr. B7		
Bonnet Stud       N89718-0437 thru 0448       ASTM A-193 CF. R7         Bonnet Stud Nut       N89719-0439 thru 0450       ASTM A-194-71 CL. 4         OTHER PARTS	Bonnet Stud       N89718-0437 thru 0448       ASTM A-194-71 C1. 2H         Bonnet Stud Nut       N89719-0439 thru 0450       ASTM A-194-71 C1. 2H         OTHER PARTS       Spindle Ball       N89721-0046       Stellite 6         BARS & FORGINGS       ASTM A-193-71 Gr. B6         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. B6         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       **         **       **       ** </td <td>Inlet Stud Nut</td> <td>N89728-0437 thru 0448</td> <td>ASME SA-194 C1. 2H</td>	Inlet Stud Nut	N89728-0437 thru 0448	ASME SA-194 C1. 2H		
Bonnet Stud Nut       N89719-0439 thru 0450       ASME SA-194 C1. 2H         OTHER PARTS         Spindle Ball       N89721-0046       Stellite 6         BARS & FORGINGS         ASTM A-193-71 Gr. E         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. E         Manufacturer         We certify that the statements made in this report arc correct.         Date /0-31 1973       Signed Crosby Valve & Gage Co. By         Manufacturer         OR Manufacturer         OA Machinery Unsperance	Bonnet Stud Nut       N89719-0439 thru 0450       ASME SA-194 C1. 2H         OTHER PARTS         Spindle Ball       N89721-0046       Stellite 6         BARS & PORCINGS       ASTM A-193-71 Gr. B6         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. B6         Inc. Certify that the statements made in this report arc correct.       ASTM A-193-71 Gr. B6         Inc. Certify that the statements made in this report arc correct.       Manufacturer       QA Manager         Intervention No.       331       expires November 9, 1974         It 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 Mittual Rool For Machinery Tinsyrance Co.*. Waltham, Mass have inspected the equipment described in this Data Report on Collections in a scondarce with the applicable Subsections of ASME Section III.         By signing this certificate, neither the inspector for his employer bar pressed or implied, concering the equipment described in this Data Report.Furthermore, acther the Inspector for his employer bar pressol of any kind arising from or connected with this inspection.         By signing this certificate, neither the langeaction of this employer makes any warranty, expressed or implied, concering the equipment described in this Data Report.Furthermore, acther the Inspector for his employer bar bar for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.         Date Cription - 21, 19 72       If 22	Bonnet Stud	N89718-0437 thru 0448	<u>ASME SA-193 Gr. 87</u>		
Spindle Ball       N89721-0046       Stellite 6         BARS & FORGINGS       ASTM A-193-71 Gr. E         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. E         Mc certify that the statements made in this report arc correct.       ASTM A-193-71 Gr. E         Date       /0-3/       1973       Signed Crosby Valve & Gage Co. By       Additional Manufacturer         Date       /0-3/       1973       Signed Crosby Valve & Gage Co. By       Additional Manufacturer         Certificate of Authorization No.       331       expires       November 9, 1974         Certificate of Authorization No.         Manufacturer         Mass.         Mass.         Inspected the equipment described in this Data Report on Co.*. Waltham, Mass.         Marce Co.*. Waltham, Mass.         Inspected the equipment described in this Data Report on Colspan="2">Constructed this equipment described in this Data Report on Colspan="2">Construct of Mass.         November 9, 1974         Mass.         Signed Cost Mathematic Cost Address.         Mass.         Addressee Cost Mathematic Cost Addressee Cost Mass.         November 9, 1974         Certificate of Authorization N	Spindle Ball       N89721-0046       Stellite 6         BARS & FORGINGS       ASTM A-193-71 Gr. B6         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. B6         Astme	Bonnet Stud Nut	N89719-0439 thru 0450	<u>ASME_SA-194_CL2H</u>		
BARS & FORGINGS         Thrust Bearing Adapter       N89725-32-0035         ASTM A-193-71 Gr. E         ASTM SA-193 Gr. B6         We certify that the statements made in this report arc correct.         Date <u>10-31</u> 197-3         Signed Crosby Valve & Gage Co. By         Manufacturer         QA Manager         Certificate of Authorization No. <u>331</u> expires November 9, 1974         Certificate of Authorization No. <u>331</u> expires November 9, 1974         Barrend English Spectors and the State or Province of <u>Mass</u> and employed by         Mutual Boller & Machanery Inspirance Co.*. Waltham, Mass. have         Inspiration OC 1-director State on State of State on State of Constructed this equipment described in this Data Report. Patham, Mass. have         Inspiration OC 1-director State on State on State on State on Structed this equipment and employed by         Mutual Boller & Machanery Inspiration OC 1-director State on	BARS & FORGINGS       ASTM A-193-71 Gr. B6         Thrust Bearing Adapter       N89725-32-0035       ASTM A-193-71 Gr. B6         ASTM A-193 Gr. B6       ASTM A-193-71 Gr. B6         Aste	OTHER PARTS	· · · ·	· · · · · · · · · · · · · · · · · · ·		
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	SUPPLY SYSTEM	PLAN No 2-1538
Ű	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACE As Required By The Provisions Of The ASME Code Sectio	1
	<ol> <li>Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352</li> <li>Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352</li> </ol>	Date: 01/30/98 Sheet: 1 of 1 Unit: WNP-2
	<ul> <li>3. (a) Work Performed By: NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301</li> <li>(b) Repair Organization P.O. No, Job No, etc.: C31331</li> <li>(c) Type Code Symbol Stamp: NWS Technologies VR And NR</li> <li>(d) Certificate Of Authorization No.: NWS Technologies VR No 632 And NR No 81</li> <li>(e) Expiration Date: NWS Technologies VR - April 3, 2000 And NR - April 09, 2000</li> </ul>	

- 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	Manufacturor'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	N63790-00-0135 (N56000-01-0099)	N/A	N/A	1976	Replacement	Yes, Code Class 1
			•	•		, * <i>c</i> ,	
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7. Description Of Work Performed: 7. Description Of Work Performed: Spare main steam relief valve Serial No N63790-00-0135 was refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The work was performed in accordance with NWS Technologies, LLC VR and NR programs as follows:

1) Disassembled the relief valve to perform the required work.

2) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint: VT-3 visual examination results acceptable for four (4) inlet studs - Out of the four (4) acceptable inlet studs, one (1) inlet stud was later found to be unacceptable (dented threads) during reassembly of the relief valve. Two (2) inlet studs were determined to be unacceptable during VT-3 visual examination. Note - Six (6) inlet studs were missing.

3) 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.

4) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable.

5) Reassembled the relief valve.

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6) Installed nine (9) new replacement stud for the relief valve inlet joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the body to bonnet joint. No evidence of leakage during the pressure test.

8) Tested the relief valve at set pressure of 1205 PSIG. Test results acceptable.

# NOTES -

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1) Supply System performed VT-1 visual examination on nine (9) new replacement studs for the relief valve inlet joint. VT-1 visual examination results acceptable.

2) "Bailly" relief valve Serial No N56000-01-0099 was modified (upgraded) to Serial No N63790-00-0135 by Crosby.

3) ASME Section III, Code Class 1, 1971 Edition with Summer 1972 Addenda in accordance with the NV-1 (Pre - Modification) Code Data Report for relief valve Serial No N56000-01-0099.

FORM NIS-2 OWNER'S REP 8 Tests Conducted: Hydrostatic Pneur Test Pressure: 10 Psig Component Design Press 9. Remarks: 1) See attached NVR-1 Code Data Repor valve Serial No N63790-00-0135. 2) See attached "Repair And Replacement To Nuclear Cod documenting the modification (upgrade) work performed b 3) See attached NV-1 Code Data Report for relief valve Serief	Test Temperat sure: 1205 Psig Temperature: 5	ssure Other ure: Ambient
8 Tests Conducted: Hydrostatic Pneur Test Pressure: 10 Psig Component Design Press 9. Remarks: 1) See attached NVR-1 Code Data Repor valve Serial No N63790-00-0135. 2) See attached "Repair And Replacement To Nuclear Cod documenting the modification (upgrade) work performed b	natic X Nominal Operating Pre Test Temperat sure: 1205 Psig Temperature: 5 Report Of Repair And Replacement Of Nuc	ssure Other ure: Ambient
Test Pressure: 10 Psig Component Design Press 9. Remarks: 1) See attached NVR-1 Code Data Repor raive Serial No N63790-00-0135. 2) See attached "Repair And Replacement To Nuclear Co documenting the modification (upgrade) work performed b	Test Temperat sure: 1205 Psig Temperature: 5	ure: Ambient
valve Serial No N63790-00-0135. 2) See attached "Repair And Replacement To Nuclear Co documenting the modification (upgrade) work performed b		
<ol> <li>See attached "Repair And Replacement To Nuclear Co documenting the modification (upgrade) work performed b</li> </ol>		lear Pressure Relief Devices"
	Crosby for relief valve Serial No Serial No No	nts" Certification Report (QC 53790-00-0135 (N56000-01-0
CERT We certify that the statements made in th	FICATE OF COMPLIANCE	
to the rules of the ASME Code, Section X Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applica Expiration Date: Not Applicable	ble	en Our
Prepared By Kuldip Singh - Program Lead Engi	2 Signed By 44000	Program Lead Engineer (PLI
Date2/2/98	Date 7	2/2/18
	·	
CERTIFICA	TE OF INSERVICE INSPECTION	
Owner has performed examinations and in accordance with the requirements of the By signing this certificate neither the Insp implied, concerning the examinations and Furthermore, neither the Inspector nor hi	gton and employed by Arkwright Mu the components described in this and state to the best of my k aken corrective measures describ- te ASME Code, Section XI. ector nor his employer makes any corrective measures described in s employer shall be liable in any ma	tual Insurance Company Owner's Report during nowledge and belief, t ed in this Owner's Rep warranty, expressed o this Owner's Report. anner for any personal
injury or property damage or a loss of an	y kind arising from or connected w	ith this inspection.
Inspector's Signature	Commissions <u>74/6 W</u> , National Boa	rd, State, and Endorsements
Date 2/11/98		

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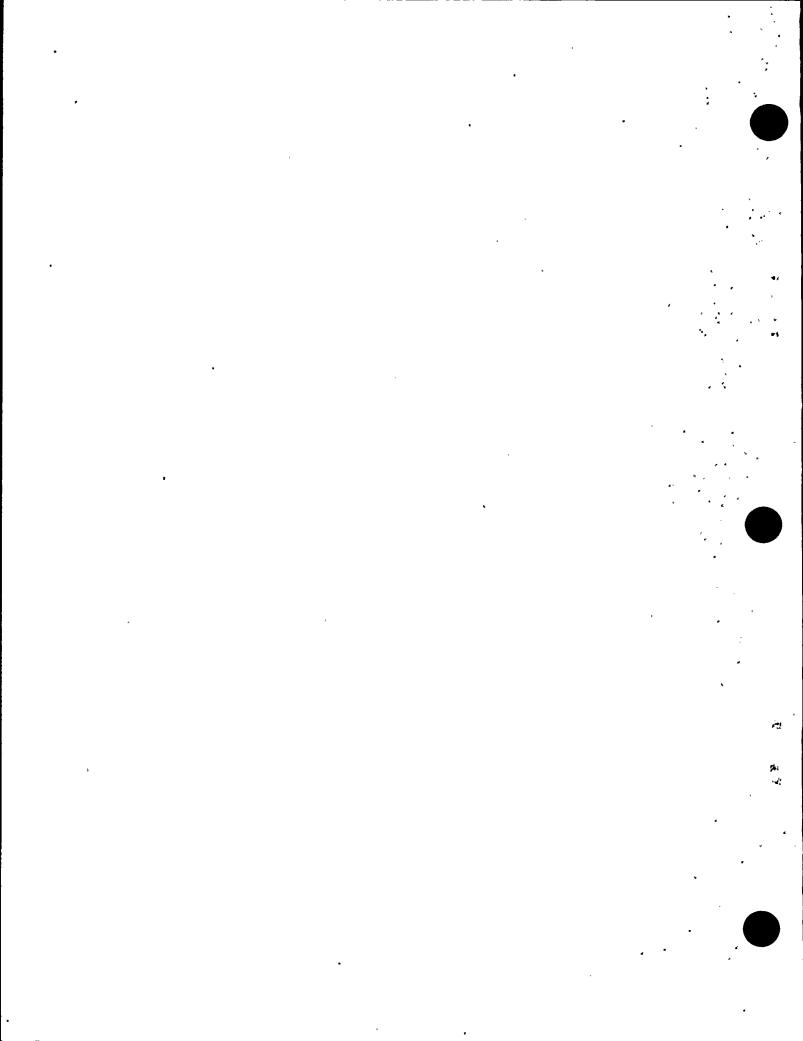
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	OF NUC	LEAR PRE	ESSURE	RELIEF	DEVIC		No 2-153
1. Work performed by	y: NWS Techn 131 Venture Bo				ise Orde 1	r #C3133	1 Kuich Bu
2. Work performed for			•		<u> </u>		
3/4. Owner - name, a WNP-2, North Po	address and identifi ower Plant Loop, R				Vashingto	on Public Pow	er Supply Syste
	acturer: Crosby V		Co.				
c: Identifying nos.	(type)	N63790-00		<u>N/A</u> (NB#)	stean		
d: Construction Co	•••		(edition)	(ND#) N/ (adde	<u>A</u>	N/A Code Cases(s))	(Code Class
6. ASME Code Section		•	•	1	989	<u>N/A</u>	N/A
7. ASME Code Sectio	n XI used for repa	irs, replacem	ents:	•	lition) 989	(addenda) N/A	(Code Case(s
8. Construction Code	used for repairs, re	eplacements:		•	lition) 971	(addenda) N/A	(Code Case(s
9. Design responsibili	ties: N/A	•		(ed	ition)	(eddenda)	(Code Case(s
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	stment made at:	identifying numbe	er of replacen	ent parts):	- Disasse	embled, lappe	d seats.
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	•	CROSBY VALVE & GAGE COMPANY	
	· '	CROSBY WRENTHAM, MA Q.C292, RE	V.A
		PLAN NIO. 2-153 8. SHEET 1 OF 2	
		Buldip Savés 3/10/94	
		REPAIR AND REPLACEMENT 3110(94 74)155 TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS	
	1.	Work performed by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093 (Name and Address)	
		(Repair organization's P.O. No., Job No., etc.). NV4000020	
	2.	OwnerWASHINGTON PUBLIC POWER_RICHLAND,WA 99352-0968(Name and Address)	
	з.	Name and Identification of Nuclear Power Plant	
	4.	Address of Nuclear Power Plant	
	5.	a. Identifying Nos. N63790-00-0135 1973	
		(Mfr's Serial No.) (Nat'l Bd. No.) (Jurisdiction No.) (Other) (Year Built) b. Identification of component repaired or replacement component	
IE			誯
		Tests conducted: Hydrostatic (X) `Pneumatic () Design Pressure () Pressure <u>2370.0</u> psi	
	7.	Identification of SystemMAIN_STEAM	
		Applicable Section(s) III of ASME Code, 19 <u>71</u> Edition	NIIII
		Addenda_NOCode Case	
min		Description of work <u>N56000-01-0099 WAS MODIFIED TO N63790-00-0135</u> (Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)	
		ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.	
	10.	Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES: PART PART NO, MODIFIED TO PART NO.	
		BODY N90118 N93183-46-0129 BONNET N89717 N93407-42-0053	
		SPINDLE ASSY         K55465         K62873-45-0059           SPR.WASHER         N89724         K62856-42-0201	
		SPR.WASHER         N89723         K62857-42-0201           SPRING ASSY         K55466         K62858-31-0003	
	•	PART PART NO. REPLACED WITH NOZZLE N89713 N93184-51-0155	
		DISC INSERT         N89715         N93185-52-0199           SPRING         NX2689         N89722-0072	
		THR.BRG.ADAPT.N89725         N93409-32-0006           ADJ.BOLT         N89726         N93410-32-0005           ADJ.BOLT BUTT. COMMERCIAL         N93411-33-0012	
		ADJ.BOLT ASSY COMMERCIAL K63618-31-0005	
且		1- dealer	目

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Q.C.-292, REV. A Certificate Holder's Serial No.___N63790.00.0135 SHEET 2 OF 2 1.1 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and all design, material, and workmanship on this MOD. _ conforms to the applicable section of the ASME Code. (repair/replacement) <u>Ilbragen 24</u> (Title) 19<u>24</u> Signed (Authorized Rep. of Repair Organization) (Date) Contraction of the approximation of the second statement of the second statement of the second second second se 1 44 A. F. M. M. 198 **CERTIFICATE OF INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by _____Factory Mutual of Norwood, Massachusetts have inspected the repair or replacement described in this report on Feb 25, 19 94 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this report. Furthermore, neither the Inspector nor his employe shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. **Factory Mutual Systems** Date, 19:1455 Commissions_ Signed (Nat'l. Bd., State, Prov. and No.) 10.23 and shadowed down the Republic stars a consist of other bar and summer the second states of the

PLAN NO. 2-1538

Quicip Sups

212198 Ballly Set WPPSS S/N WPPSS Set Bailly S/N N63790-00-0134 1175 1175 N56000-01-0037 N63790-00-0135 N56000-01-0099 1130 1205 N56000-02-0043 N63790-00-0136 1205 1205 1195 N63790-00-0137 N56000-02-0042 1195 N63790-00-0138 N56000-01-0038 1175 * 1185 N63790-00-0139 1165 N56000-01-0100 .1130

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CROSBY		VALVE 8 GA WRENTHAM, M	GE COMPANY Ass
	-1 FOR SAFETY AND SA uired by the Provisions of		Q.C44C
	DATA REPOR Salety and Salety Rel		
I. Manufactured By <u>Crosby Value</u> HB-65-BP- Model No. <u>FN</u> Order No <u>N-</u> General Ele	Name and Addr -51726 -ctric Co., 175 Cu	n Date <u>1/27/75</u> Nat rtner Ave.,	ional Board No
•••	ame and Address	:	
3. Owner Northern Indiana Pub	Namerand Address	Bailly Generating	Station Nuclear I
Location of Plant Baileytown, Spare Valve (dentification MPL#B22-F01	Indiana	-01-0099_Drawing No	H-56000 Rev. C
Type <u>Safety Reli</u> Safety,Safety Relief,Pilot,Powe . Set Pressure (PSIG) 1130	efOrifice S		inlet_ <u>6</u> Outlet_10 chinchinch 575 ⁰ ed Temperature
Stamped Capacity850500#/Hr.		verpressure Blowdo	wa (PSIG)
Hydrostatic Test (PSIG) inlet2	370	Complete Valve	825
The material design construction and Class <u>1</u> Edition 1973			
Pressure Containing or Pressure Retain	ining Components		
1. Caracher Forging	Serial No. Identification	Inclu	terial Specification Iding Type or Grade
Body	N90118-35-0032	ASTM A ASME SA ASTM A	105-71
Bonnet	<u>N89717-36-0083</u>	ASME SA	
b. Bar Stock and Forgings	N00715 24 0304	ASTM A	564-71 Type 630
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<u>N89715-36-0106</u>	ASTM A	564 <u>Type 630</u> 182-71 Type 316
Nozzle Dese Holder K55/8/-39-013	<u>N89713-36-0106</u>		<u>182 Type 316</u>
Disc Holder K55484-39-013 Spring Washers K55466-36-009	N89724-36-0173 N89723-38-0131	<u>ASME SA</u>	105-71
Adjusting Bolt	N89726-40-0119	ASME SAI	93 Gr. 36
Spindle K55465-35-0106	<u>N89720-38-0129</u>	ASME SAS	64 Type 630
Spindle Ball Thrust Bearing Adapter	<u>N89721-0206</u>	<u>Stoodv N</u> ASTM Al	10. 6 .93-71 Gr. 36
	<u>N89725-34-0116</u>	1,01,00,011	<u>.93 Gr. 36</u>

	Serial No. or		Material Specificati	17::
	Identification		including Type of Gr	lacie
Spring	N89722-0072	AST	I A304-66	
Bolting	·····			
Other Parts such as Pilot Compor	nents			
Inlet Stud	N89727-1203 thru	1214	ASME SA193 Gr.	87
Inlet Nut	N89728-1197 thru	1208	ASME SA194 Gr.	2H
Bonnet Stud	N89718-1222 thru		ASME SA193 Gr.	<u>B7</u>
Bonnet Nut	N89719-1216 thru	1227	ASME SA194 Gr.	2H
certify that the statements made i	in this report are correct.			
	n this report are correct. gned <u>Crosby Valve &amp; Gag</u> Manufacturer 926 expires <u>Octob</u>	•	<u>M Alem</u> QA Manage	<u>an /</u> ir
e <u>6-22</u> 19 <u>76</u> Signature of Authorization No.	gned Crosby Valve & Gag Manufacturer	per 28, 1		an/
I. the undersigned, hold Pressure Vessel Inspecto Factory Mutual S	CERTIFICATE OF SHOP INSPE	ction the vational Mass.	<u>977</u>	an/_ ir
I. the undersigned, hold Pressure Vessel Inspecto Factory Mutual S inspected the equipment of state that to the best of m	<u>gned</u> <u>Crosby Valve &amp; Gag</u> <u>Manufacturer</u> <u>926</u> <u>expires</u> <u>Octob</u> CERTIFICATE OF SHOP INSPE ing a valid commission issued by ors and the State or Province of	ction the vational Mass.	977 Board of Botler and and employed by have 19 and constructed this equip-	an/_ ir

# SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301 (b) Repair Organization P.O. No, Job No, etc.: C31331
  - (c) Type Code Symbol Stamp: NWS Technologies VR And NR
  - (d) Certificate Of Authorization No.: NWS Technologies VR No 632 And NR No 81
  - (e) Expiration Date: NWS Technologies VR April 3, 2000 And NR April 09, 2000
- 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	N63790-00-0138 (N56000-01-0038)	N/A	N/A	1973	Replacement	Yes, Code Class 1

7. Description Of Work Performed: 7. Description Of Work Performed: Spare main steam relief valve Serial No N63790-00-0138 was refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The work was performed in accordance with NWS Technologies, LLC VR and NR programs as follows:

1) Disassembled the relief valve to perform the required work.

2) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable.

3) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve body to bonnet joint. VT-3 visual examination results acceptable.

4) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable.

5) Reassembled the relief valve.

6) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the body to bonnet joint. No evidence of leakage during the pressure test.

7) Tested the relief valve at set pressure of 1185 PSIG. Test results acceptable.

# NOTES -

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1) "Bailly" relief valve Serial No N56000-01-0038 was modified (upgraded) to Serial No N63790-00-0138 by Crosby. 2) ASME Section III, Code Class 1, 1971 Edition with Summer 1972 Addenda in accordance with the NV-1 (Pre - Modification) Code Data Report for relief valve Serial No N56000-01-0038.

Date: 01/30/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1539

		WASHING	CTON PUBLIC POWE	R	PLAN No 2-1
		SUPP	PLY SYSTEM	Ā.	
FC	ORM NIS-2 OWNE	R'S REPORT FO	OR REPAIRS (	OR REPLACEME	NTS (Back)
rests Conducte	ed: Hydrostatic [ Test Pressure: 1	0 Psig		est Temperature:	73 ⁰ F
	Component Des	ign Pressure: 118	5 Psig Te	emperature: 575° F	• •
e Serial No N63790 See attached "Repai	0-00-0138. ir And Replacement To	Nuclear Components	And Systems In No	• . uclear Power Plants" C	ressure Relief Devices" for relie ertification Report (QC 292A)
	fication (upgrade) work p Code Data Report for re				00-0138 (N56000-01-0038).
•					• •
<u>_</u>			-		
		CERTIFICATE	E OF COMPLI	ANCE	• • •
			er's Report are	correct and this r	eplacement conforms
	the ASME Code, S mbol Stamp: Not Ap				
Certificate Of	Authorization No.:				
Expiration Dat	e: Not Applicable	- 19.			· · · ·
Prepared By _	fucinp	Supp	Signed By		Sugh.
<b>-</b> (	Kuldip Singh - Program	n Lead Enginteer (PLE)		Kuldip Singh - Plogr	am Lead Engineer (PLE)
Date			Date		
		<u></u>	· · ·		•
	CE	RTIFICATE OF I		SPECTION .	•
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1. Work perform		IWS Techn 31 Venture Bo				ase`Order	# <u>C31331</u>	Huidip &
2. Work perform	ned for: M	/ashington Pu	blic Power S	upply Syst	em - WNF	<b>p-2</b>	·	, **
3/4. Owner - nar	me, addre		ication of nuc	lear powe	r plant: [°] V		n Public Powe	r Supply Syste
5. a: Repaired p b: Name of m		elief device: rer: Crosby V	Main Stean		elief Valve	}		
c: Identifying		3-65-BP-FN	N63790-0		N/A	steam	6 x 1	0 197
di Constanti	on Onder	(type)	(mfr's S		(NB#)	(service)		(yr.bu
d: Constructio	on Code:	ASME Sec. I		1971	<u> </u>		N/A	. <u> </u>
		-	,	(edition)	(adde		ode Cases(s))	, (Code Class
6. ASME Code S	Section XI	applicable for	inservice ins	spection:		989	<u>N/A</u>	<u>N/A</u>
7. ASME Code S	Section XI	used for renai	rs renlacom	onte:	•	tition) 989	(addenda) N/A	(Code Case(s N/A
			is, replaceri	ents.		tition)	(addenda)	(Code Case(s)
8. Construction C	Code used	l for repairs, re	placements:	;		971	N/A	<ul> <li>N/A</li> </ul>
			;		(ec	ition)	(addenda)	(Code Case(s)
9. Design respon	sibilities:	N/A						
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	at					······		-
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replacement of the		e relief devices	described a	nts made i above confi	orms to S	ection XI (	rect and the re of the ASME C	ode and the
National Board Ins	spection C	ode "VR" and	"NR" rules.					;
National Board Ce				to use	the "VR" s	stamp exp	ires <u>April 3,</u>	2000.
National Board Ce	ertificate of	fAuthorization	No. 81	to use	the "NR"	stamp,exp	ires April 9.	2000.
		nnologies, LL	c (	Elen	Leve	ī/		nager. QA
Date (i	repair organi	ization)	(auti	horized repre	sentative)	/	(litle)	
	-		ERTIFICATI		•			
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essel Inspectors end employed by	Hartfor	d Steam Roil	er increation	by the jur			nnessee	spected the
epair or replacem	ent descri	bed in this rep	ort on	12/9/9			that to the bes	•
nowledge and bel								
SME Code and the	he Nationa	al Board Inspe	ction Code "	VR" and "N	IR" rules.			•
y signing this cert	tificate, ne	ther the unde	rsigned nor i	ny employ	er makes	any warra	anty, expresse	d or
nplied, concerning	g this repa	iir or replacem	ent describe	d in this re	port. Futh	ermore, n	either the unde	arcianoa
or my employer si	- hail ha list		/					
rising from or con-	hall be liat	ole in any man	ner for any p	personal inj	ury, prope	erty dama	ge or loss of a	ny kina
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sing from or coni 12:9/97 ite	hall be liat nected wit	ole in any man	ner for any p on.	personal inj	ury, prope B 8460. A	erty dama	ge or loss of a	ny kina

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		CROSBY, PLAN No. 'Z-1539 O.C292, REV SHEET 1 OF 2	ν.Α ?
		لاسطنام لحسول REPAIR AND REPLACEMENT 3110194 Holgs TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS	
	1.	Work performed by <u>Crosby Valve &amp; Gage Company 43 Kendrick St. Wrentham. MA 02093</u> (Name and Address) (Repair organization's P.O. No., Job No., etc.). <u>NV4000020</u>	
	2.	Owner WASHINGTON PUBLIC POWER RICHLAND, WA 99352-0968 (Name and Address)	
	з.	Name and Identification of Nuclear Power Plant <u>HANFORD #2</u>	
	4.	Address of Nuclear Power PlantRICHLAND ,WA	
100000000000	5.	a. Identifying Nos. <u>N63790-00-0138</u> <u>1973</u> (Mfr's Serial No.) (Nat'I Bd. No.) (Jurisdiction No.) (Other) (Year Built) b. Identification of component repaired or replacement component c. Name of Manufacturer_ <u>CROSBY VALVE &amp; GAGE COMPANY</u>	
		Tests conducted: Hydrostatic (X). Pneumatic () Design Pressure () Pressure <u>2370.0</u> psi	The second se
11111111	8.	Applicable Section(s) III of ASME Code, 19 <u>71</u> Edition . Addenda <u>NO</u> Code Case <del></del>	
nini:	9.	Description of work	틥
		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified) ASME SEC.XI,1980 EDITION WINTER 1980 ADDENDA.	
	10.	Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:         PART       PART NO,       MODIFIED TO PART NO,         BODY       N90118       N93183-44-0127	
		BONNET         N89717         N93407-45-0056           SPINDLE ASSY         K55465         K62873-43-0057           SPR.WASHER         N89724         K62856-45-0204           SPR.WASHER         N89723         K62857-45-0204	
IIIII HAIIIII		SPRING ASSY         K55466         K62858-31-0002           PART         PART NO.         REPLACED WITH           NOZZLE         N89713         N93184-51-0154	
		DISC INSERT         N89715         N93185-52-0201           THR.BRG.ADAPT.N39725         N93409-34-0011           ADJ.BOLT         N89726         N93410-31-0004           ADJ.BOLT         BUTT. COMMERCIAL         N93411-33-0011	
H H		ADJ.BOLT ASSY COMMERCIAL K63618-31-0004	
		5. 2/2.3/94.	

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Q.C.-292, REV. A Certificate Holder's Serial No.___N63790.00.0138 SHEET 2 OF 2 arnor when we have a state of the state of the second state of the second state of the state of the state of the A.F. F. M. C. M. S. M. C. M. and the first first states of the second CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and all design, material, and workmanship on this MOD. _ conforms to the applicable section of the ASME Code. (repair/replacement) (Title) (Date) Signed 🔾 iner 1994 (Authorized Rep. of Repair Organization) and the second with the state of the state of the second state of the state of the second state of the sec CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by ____ Factory Mutual of <u>Norwood</u>. <u>Massachusetts</u> have inspected the repair or replacement described in this report on Feb 25, 19.94 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this report. Furthermore, neither the Inspector nor his employed shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. **Factory Mutual Systems** Date. 197 Commissions_ Sianed (Nat'l. Bd., State, Prov. and No.) (Inspector) 1. 1. 1. 1. 50 % . 10 5 40 mm 7 5 2 6 " . 61. 42 Pasta 12 12 1 2 5 1 5 1

PLAN NO. 2-1539 Amarile Surph 72488

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

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CROSBY	CROSBY VA	ENTHAM, NASS Chuyen
FORM N As rec	V-1 FOR SAFETY AND SAFETY quired by the Provisions of the As	RELIEF VALVES Q.C44A SME Code Kules
	DATA REPORT Sulwy and Safety Relief Va	lvcs
	Name and Address	1ck St., Wrentham, Mass. 02093
General Elè	ctric Company	Contract Date 6/28/71
2. Manufactured For San Jose, C	all form 18	Order No. 205-AD148
8. Owner Northern Indiana Pu		ly Generating Station Nuclear
Dailanta.		Baileytown, Indiana 🛓
. Location of Plant Bailcytown.		
5. Valve Identification MPL #B-22-1	F013 Serial No: N56000-01-	0038 Diswing No. H-56000 Rev. C
	Outling Size	
Type Safety Relief	Onnee Size	_R Pipe Size Inlet _0Outlet_
Safety, Safety Relief, Pilot, Pow	er Actuated I	nch inch inch
Safety.Safety Relief, Pilot. Pow 3. Sat Pressure (PSIC) 1175	er Actuated I	nch Inch Inch 575° Rated Temperature
Safety Safety Relief, Pilot. Pow 5. Set Pressure (PSIC) 1175 Stamped Capacity 883950	er Actuated I	nch inch inch 575°
Safety Safety Relief, Pilot. Pow 5. Set Pressure (PSIG) <u>1175</u> Stamped Capacity <u>883950</u> Sat. Steam	Lbs. Hr. c _3 Overpro	nch Inch Inch 575° Rated Temperature Essure — Blowdown <del>XRSIRX 5%</del>
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Safety.Safety Relief, Pilot.Pow- Sat Pressure (PSIG) <u>1175</u> Stamped Capanity <u>883950</u> Sat. Steam Hydrostatic Test (PSIG) Inlet <u>2</u> The material, design, construction an Class <u>1</u> Edition 1 or II Pressure Containing or Pressure Red a. CHECEEK Forgings Body	er Actuated I Lbs. Hr. c 3 .: Overpro- 2370 Comp d workmanship comply with ASME <u>1971</u> Ar Lining Components Serial No. Identification <u>N90118-32-0009</u>	nch inch inch 575° Rated Temperature Essure — Blowdown XBSIRX 5% lete Valve <u>825</u> Code. Section III Idenda Date <u>Summer 1972</u> Material Specification including Type or Grade ASTM A-105-71 Gr. II <u>ASTM A-105 Gr. II</u>
Safety.Safety Relief, Pilot.Pow Safety.Safety Relief, Pilot.Pow Sat. Steam Stamped Capacity_883950 Sat. Steam Hydrostatic Test (PSIG) Inlet2 The material, design, construction an Class Edition 1 or II Pressure Containing or Pressure Retains a. CRECENCE Forgings Body Bonnet & XX2001	Lbs. Hr. c _3 =: Overpro Lbs. Hr. c _3 =: Overpro 2370Comp d workmanship comply with ASME 1971Ar Lining Components Serial No. Identification	nch Inch Inch 575° Rated Temperature Essure — Blowdown <u>XBStRX</u>
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Safety.Safety Relief, Pilot. Pow- . Sat Pressure (PSIG) <u>1175</u> Stamped Capanity <u>883950</u> Sat. Steam Hydrostatic Test (PSIG) Inlet <u>2</u> . The material, design, construction an Class <u>1</u> tor II Pressure Containing or Pressure Red a. CARCERK Forgings Body Bonnet & XXXXX b. Bat Stock and Forgings SERVEXXXXX Disc Insert	er Actuated I Lbs. Hr. c3 ~: Overpro- 2370Comp d workmanship comply with ASME 1971Ar Lining Components Serial No. Identification <u>N90118-32-0009</u> <u>N89717-32-0022</u> <u>N89715-32-0018</u>	nch Inch Inch 575° Raied Temperature ssure — Blowdown <u>xBStRX</u> 5% lete Valve <u>825</u> Code. Section III idends Date <u>Summer 1972</u> Material Specification Including Type or Grade ASTM A-105-71 Gr. II <u>ASME SA-105 Gr. II</u> ASTM A-105-71 Gr. II <u>ASME SA-105 Gr. II</u> <u>ASTM A-461-65 Type 630</u> ASTM A-182-71 F316
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	Serial No. or	Material Specification
	Identification	Including Type of Grade
e. Spring	NX2689-0043	ASTM A-304-66 Gr. 4161H
d. Bolting		·
e. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
Inlet Stud	N89727-0445 thru 0456	ASTM A-193-71 Gr. B7 ASME SA-193 Gr. B7
Inlet Stud Nut	N89728-0449 thru 0460	ASTM A-194-71 Cl. 2H ASME SA-194 Cl. 2H
Bonnet Stud	N89718-0449 thru 0460	ASAE sA=193-21 GE7 B7
Bonnet Stud Nut	N89719-0451 thru 0462	ASTM A-194-71 Cl. 2H ASME SA-194 Cl. 2H
OTHER PARTS		
Spindle Ball	N89721-0044	Stellite 6
BARS & FORGINGS		
Thrust Bearing Adapter	N89725-32-0033	ASIM A-193-71 Gr. B6 ASME SA-193 Gr. B6
		· · · · ·
Date <u>10-31</u> 1973 Signed	Manufacturer	By QA Manager
Geruffcate of Authorization No331	expires November	9: 1974
	•	,
CER	FIFICATE OF SHOP INSPECTION	
I, the undersigned, holding a	valid commission issued by the Na	tional Board of Builer and
Pressure Vessel Inspectors an	d the State or Province ofM	155. and employed by
Mulual builet a machin	that is this Duty Dissue on Colla	1. 1. 19 2 2nd
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inspected the equipment descri- state that in the best of my kno ment in accordance with the ap By signing this curtificate, n	owledge and belief, the Manufacture oplicable Subsections of ASME Sect either the Inspector nor his employe	r has constructed this equip- ion III. It makes any warranty, ex-
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		PLAN No 2-1540
	SUPPLY SYSTEM	•
	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEM As Required By The Provisions Of The ASME Code Section	
	1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	Date: 01/30/98
	2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	Unit: WNP-2
•	3. (a) Work Performed By: NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301 (b) Repair Organization P.O. No, Job No, etc.: C31331	
	(c) Type Code Symbol Stamp: NWS Technologies VR And NR (d) Certificate Of Authorization No.: NWS Technologies VR No 632 And NR No 81	
	(e) Expiration Date: NWS Technologies VR - April 3, 2000 And NR - April 09, 2000 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	N63790-01-0140	N/A	N/A	1994	Replacement	Yes, Code Class

7. Description Of Work Performed: 7. Description Of Work Performed: Spare main steam relief valve Serial No N63790-01-0140 was refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The work was performed in accordance with NWS Technologies, LLC VR and NR programs as follows:

1) Disassembled the relief valve to perform the required work.

2) Performed VT-3 visual examination on the exposed surfaces of the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable for nine (9) inlet studs. One (1) inlet studs were determined to be unacceptable during VT-3 visual examination. Note - Two (2) inlet studs were missing.

3) 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.

4) Performed VT-3 visual examination on the existing nuts for the relief valve body to bonnet joint. VT-3 visual examination results acceptable.

5) Reassembled the relief valve.

6) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the body to bonnet joint. No evidence of leakage during the pressure test.

7) Tested the relief valve at set pressure of 1165 PSIG. Test results acceptable.

#### NOTES -

1) Three (3) Inlet studs will be installed by Supply System at the time when relief valve is ready to be installed in the plant.

×	MASHINGTON PUBLIC POWER SUPPLY SYSTEM
FO	RM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
rests Conducte	d: Hydrostatic Pneumatic X Nominal Operating Pressure Other None Test Pressure: 10 Psig Test Temperature: 73° F Component Design Pressure: 1165 Psig Temperature: 575° F
e Serial No N63790	attached NVR-1 Code Data Report "Report Of Repair And Replacement Of Nuclear Pressure Relief Devices" for relief -00-0140. code Data Report for relief valve Serial No N63790-00-0140.
	•
	CERTIFICATE OF COMPLIANCE
to the rules of Type Code Syr	A in $(12)$
Date	Kuldip Singh - Program Lead Engineer (PLE)     Kuldip Singh - Program Lead Engineer (PLE)       2/2/98     Date
	· · · · · · · · · · · · · · · · · · ·
Vessel Inspect of Waltham, Mas period <u>2-10</u> Owner has per in accordance	CERTIFICATE OF INSERVICE INSPECTION ned, holding a valid commission issued by the National Board of Boiler and Pressure ors and the State of Washington and employed by Arkwright Mutual Insurance Company seachusetts have inspected the components described in this Owner's Report during the $-\frac{fS}{2}$ to $\frac{2-f}{2}$ and state to the best of my knowledge and belief, the formed examinations and taken corrective measures described in this Owner's Report with the requirements of the ASME Code, Section XI. certificate neither the Inspector nor his employer makes any warranty, expressed or ming the examinations and corrective measures described in this Owner's Report.

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	WS Technolo 31 Venture Boulev	gies; LLC vard, Spartanburg,	-	se Order #	C31331	Vular 2421
2. Work performed for: <u>V</u>	Vashington Public	Power Supply Syst	em - WNP-	2	*	···
3/4. Owner - name, addre WNP-2. North Power	ess and identification Plant Loop, Richla	on of nuclear powe and, WA 99352-096	r plant: <u>Wa</u> 8	ashington	Public Power	Supply Syste
5. a: Repaired pressure r		ain Steam Safety Re	elief Valve			
b: Name of manufactu					<u>C + 40</u>	
c: Identifying nos. H		63790-01-0140	N/A	steam	<u>6 x 10</u>	
d: Construction Code:	(type) ASME Sec. III D	(mfr's S/N) iv. 1 1971	(NB#) N/A	(service)	(size) N/A	(yr.bu 1
	(name/section/divisi		(adden	and the second	de Cases(s))	(Code Class
6 ASME Code Contine VI		• • •		• •	N/A	N/A
6. ASME Code Section XI	applicable for Inst	ervice inspection:	19 (edit		(addenda)	(Code Case(s
7. ASME Code Section XI	used for repairs.	eplacements:	19	•	N/A	N/A
•		-b	(edit		(addenda)	(Code Case(s
8. Construction Code used	d for repairs, repla	cements:	19	71	<u>N/A</u>	<u>N/A</u>
		•	(edit	ion)	(addenda)	(Code Case(s
9. Design responsibilities:	N/A					
<ol> <li>Opening pressure: <u>11</u> Set-pressure adjustme</li> <li>Description of work (in cleaned, inspected, as</li> </ol>	ent made at: .		ment parts):			eats.
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•			LVE & GAGE COMPANY	
	CROSBY,	W	RENTHAM, MA	
•		· •	0. <i>C44C-1</i>	
		PLAN A	10 2-1540 Kull & Swib 2/2/9	18
T	FORM NYL1 FOR	CAFETY AND SAF	ETY RELIEF VALVES	
	-	the Provisions of the	•	
	ns Requirea by	DATA REPORT	-	
	Sa	fety and Safety Relief		
1.	Manufactured by Crosby Valve & G	age Company 43 Kendrick St. nd Address of N Certificate H		
			Date 24 JAN 1994_National Board No	
2.		BLIC POWER SUPPLY SYS' (Name and Address)	TEM RICHLAND,Worder No. 238136 C/N 02	
<b>3</b> .	Owner WASHINGTON PUBLIC	POWER SUPPLY SYSTEM (Name and Address)	I RICHLAND, WA	- 8
4.	Location of Plant HANFORD # 2			
	Valve Identification B22-F013	Serial No. N637	0-01-0140_ Drawing No.DS-A-63790-1 RE	Val
▋			· · · · · · · · · · · · · · · · · · ·	
	TypeMAIN_STEAM (Safety, Safety Relief, Pilot,Power		Pipe Size Inlet 6 Outlet 10 (Inch) (Inch) (Inch)	
	bt Pressure1165.0	56		
<b>∃</b> `	Stamped Capacity 876878 LB./HR.S/		emperature sure <u> </u>	
<u></u>	Hydrostatic Test (PSIG) Inlet237	0 Complete Valve	1100	
7.	The material, design, construction and v	workmanship comply with AS	ME Code, Section III.	
	Class_1 Edition_1971, Addenda D	ate_NOCas	e No	
T		Serial No.	Material Specification	1
а.	Castings	Identification	Including Type or Grade	
	Body	<u>N93183-47-0130</u>	ASTM A105 GR.II	
с, b.	Bonnet Bar Stock & Forgings	<u>N93407-47-0058</u>	ASTM A105 GR.II	
	Support Rods			
	Nozzle Disc	<u>N93184-53-0167</u> N93185-52-0204	ASME SA182 GR.F316 ASME SA637 GR.718	目
		N93186-41-0060		
	Spring Washer <del>s</del> Adjusting Bolt	<u>N93187-40-0007</u> N93410-33-0007	<u>_ASTM A105 GR.II</u> ASME SA193 GR.B6	
	' Spindle	N96461-34-0015	ASTM A564 TYPE 630	目
c. d.	Spring Bolting	NX2689-0138	<u>ASTM A304 GR.4161 H</u>	目
<b>u</b> . <b>o</b> .	Other Pieces			目
	DISC HOLDER	<u>N89714-42-0279</u> N96460	AMS5662B(INCONEL718) ASTM A276 T440C	
	SPINDLE BALL ADJ BOLT BUTTON	N93411-36-0015	ASME SA193 GR.86	目
	THRUST BEARING ADAPTER	N93409-35-0012	ASTM A193 GR.86	
	BONNET STUD	<u>N93207</u> N93210	<u>ASTM A193 GR.B7</u> ASME SA194 CL.2H	目
ŀ	BONNET NUT	N93216	ASIM A193 Gr.B7	目
4	INLET NUT	N93218	ASTM A194 CT. 2H Jept	目

Q.C.-44C-1 An and reading of the the second se We certify that the statements made in this report are correct. Date 27 Man 94 Signed Crosby Valve & Gage Company by Commence Finit Manufacturer Certificate of Authorization No. 1878 expires 30 SEP 95. the stand of the * The state of the 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 Arkwright -Boston Manufacturers have inspected the equipment described in this Data Report on Mutual Insurance Company  $\frac{\mu_{2}}{27}$ , 19  $\frac{7}{7}$  and state that to the best of my knowledge and belief, the Manufacturer has constructed thisequipment in accordance with the applicable Subsections of ASME Section III By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Factory Mutual System Date_ Commissions Marts Signed__ (Nat'l. Bd., State, Prov. and No.) 

#### PLAN No 2-1541



### 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352.

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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 Şerial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
PI-EFC-X41E	Dragon	GW 1059	N/A	N/A	1978	Replaced ,	Yes, Code Class 1
PI-EFC-X41E	Dragon	PB 1178	N/A	N/A	1992	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced existing valve PI-EFC-X41E. The replacement work was performed as follows: 1) Removed existing valve PI-EFC-X41E, Serial No GW 1059.

2) Installed new replacement valve PI-EFC-X41E, Serial No PB 1178.

4) Made required socket weid.

4) Performed visual examination on the final socket weld. Visual examination results acceptable.

5) Performed liquid penetrant (PT) examination on the final socket weld. Liquid penetrant (PT) examination results acceptable.

#### NOTES -

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1) The existing ASME Code Stamped process instrumentation system in which the new replacement valve PI-EFC-X41E, Serial No PB 1178 was installed is Process Instrumentation (PI) system PI(1)-4S-X-41e. This process instrumentation system is certified to comply with ASME Section III, Code Class 2, 1974 Edition with Winter 1975 Addenda requirements.

2) The new replacement valve PI-EFC-X41E, Serial No PB 1178 is certified to comply with ASME Section III, Code Class 1, 1974 Edition with Winter 1976 Addenda requirements. ASME Section III, Code Class 1 valve for ASME Section III, Code Class 2 application.

Date: 06/10/98 Sheet: 1 of 1 Unit: WNP-2

	PLAN No
,	SUPPLY SYSTEM
	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
8 Teste Condu	cted: Hydrostatic Pneumatic Nominal Operating Pressure Other Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F
9. Remarks: So	e attached NPV-1 Code Data Report for the new replacement valve PI-EFC-X41E, Serial No PB 1178.
	· ·
	CERTIFICATE OF COMPLIANCE
We certify i	that the statements made in this Owner's Report are correct and this replacement conforma
to the rules	of the ASME Code, Section XI. Symbol Stamp: Not Applicable
Certificate	Of Authorization No.: Not Applicable
Expiration	Date: Not Applicable
Prepared B	1y Juldip Sund Signed By Juldip Such
	Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE)
Date	G[0[18BateG[0[18
	· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF INSERVICE INSPECTION
Vessel Insp of Waltham, period <u> </u>	rsigned, holding a valid commission issued by the National Board of Boller and Pressure bectors and the State of Washington and employed by Arkwright Mutual Insurance Company Massachusetts have inspected the components described in this Owner's Report during <u>1311/15</u> to <u>6115</u> and state to the best of my knowledge and bellef, the performed examinations and taken corrective measures described in this Owner's Report ance with the requirements of the ASME Code, Section XI. this certificate neither the Inspector nor his employer makes any warranty, expressed of ncerning the examinations and corrective measures described in this Owner's Report. re, neither the Inspector nor his employer shall be liable in any manner for any personal poperty damage or a loss of any kind arising from or connected with this inspection.
M	Commissions 7486 W/7486 NZS & I
1 1-11	Inspector's Signature Commissions 1776 National Board, State, and Endorsements
Data lal.	RIGE

1. Manufacture 2. Manufacture	Wash. Pi	Alves, Inc. e and Address o blic Power a and Address of Pu	IN Certificate SUP. SYS.	celsior Dr., N Holder) P. O. Box 968	orwalk, C Richland,	WA. 90650	52-0968
3. Location of l	stallation WNP-	2 OPS WHS C	omplex, WH	S #1 No. Pwr.	Plt. Loop	Richlar	nd. WA
4. Pump or Va	(Nam	e and Address)	: Nominal	Inlet Size(in	Ou	tlet Size]	1/2*
-	····	utteste Vetdesia		(in	zh) ·		_ (inch),
• •	del No., (b) N Cer s No.	Serial	Registration	(d) Drawing		(1) Nat'i.	(g) Ye
_	(ype	No.	No.	No.	(e) Class	Bd. No.	" Bui
11258		B1169	N/A			N/A	1992
(1) · <u>1256</u> (2)		Thru		REV. F	·····		
	P	B1178					
(4)			·	<u> </u>	•		
(5)	p	I-EFC-X	41E. 31	J PRILTB		4	
(6)						•	
(8)		4		Kuldip &	up 5		
(9)	91 <b>#</b>	·	•	<u>م</u>	99.8	• • •	, <b>, , , ,</b>
(10)		<u> </u>	······,····				
e E	xcess Flow C	heck Valve			(10	Pcs.)	
J,		(Brief description	n of service for w	hich equipment was der	igned)		
G. Design Cond 7. Cold Working 8. Pressure Ret		ue) psi 00 psi at 1	600 (Temperature) 100°F.	*F or Valve Pre	ssure Class .		
7. Cold Working 8. Pressure Ret	Pressure36	~~ ·	(Temperature) 100°F. :	°F or Valve Pre Manufactu	;	. Rema	
7. Cold Working 8. Pressure Ret 	rk No.	00 psi at 1	(Temperature) 100°F. :		;	·	
7. Cold Working 8. Pressure Ret	Pressure 36 prining Pieces	00 psi at 1	(Temperature) 100°F. :		;	·	
7. Cold Working 8. Pressure Ret 	rk No.	00 psi at 1	(Temperature) 100°F. :		;	·	
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7. Cold Working 8. Pressure Ret. Ma (a) Castings (b) Castings (b) Forgings HT. 310	Pressure       36         aining Pieces       36         nk No.       1         N/A       1	00 psi at the second seco	(Temperature) 100°F. ; pec. No.	Manufactu	rer	Body	
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7. Cold Working 8. Pressure Ret. Ma (a) Castings (b) Castings (b) Forgings HT. 310	Pressure       36         aining Pieces       36         rk No.       1         N/A       1         28       A         228       A         228       A	00 psi at the second seco	(Temperature) 100°F. ; pec. No.	Manufactu	rer	Body	

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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

(10/77)

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Mark No.	marcrial Spec. No.	Monufacturer	Remarks
(c) Bolting N/A			
·····		·	
(d) Other Parts		•	
HT.79193	ASME SA564 Gr. 630	Dragon Valves, Inc.	Disc
HT.853543 HT.856970	ASME SA564 Gr. 630	Carpenter Tech.	Disc
AT.856970	ASME SA564 Gr. 630	Carpenter Tech.	Cap Screw
······································			
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		······	
	<u>L</u>	<u></u>	
9. Hydrostatic test 5400	psi. Disk Differential test pressure	4000 psi.	
	· · ·		
construction of the ASME C Addendy <u>W*76</u> (Date) Signed <u>DRAGON VAL</u> (M Centificate H Our ASME Certificate of Auth	CERTIFICATION O Washington Public Por I only) on file atWashington ' 1 d by (1)James E. Hagan, o Reg. NoJames C	ponents. Section III, Div. L. Edit . Dato Septemb by	expires 5-6-93 (Date)
PE State MA	. Reg. No. 19797		
(1) Signature not required. Li	st name only,		
	CERTIFICATE OF SHO	P INSPECTION	
of HARTFORD, CT.	valid commission issued by the N CALIFORNIA have inspected the	ational Board of Boiler and Pres and employed by <u>H.S.B. IN</u> a pump, or valve, described in myknowledge and belief, the NCe	this Data Report on
By signing this certificate, ne the equipment described in t	ither the Inspector nor his employer his Data Report. Furthermore, neither ty or property damage or a loss of an 19 $22$ . 19 $22$ . 19 $22$ . 19 $22$ . 19 $22$ . 19 $22$ . 19 $22$ .	makes any warranty, expressed or the Inspector nor his employe ny kind arising from or connected	r shall be liable in any wilh this inspection.

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PLAN No 2-1542

## SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
  - Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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 Recirculation Cooling (RRC) 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' <del>s</del> Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
RRC(51)-4	WPPSS	RRC(51)-4-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Modified existing support RRC-4300-33B associated with valve RRC-V-20. The replacement work was performed as follows:

- 1) Removed existing support material.
- 2) Installed new support material.
- 3) Made required welds.

4) Performed visual examination on the final welds. Visual examination results acceptable.

5) Performed magnetic particle (MT) examination on the final welds. Magnetic particle (MT) examination results acceptable.

6) Installed new hex head cap screws and nuts.

#### NOTES -

1) ASME Section III, Code Class NF(1), 1971 Edition with Winter 1973 Addenda for the support work.

2) The existing support RRC-4300-33B associated with valve RRC-V-20 is for existing ASME Code Stamped piping system Reactor Recirculation Cooling (RRC), RRC(51)-4-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

Date: 05/25/98 Sheet: 1 of 1 Unit: WNP-2

	VSHINGTON PUBLIC PORER UPPLY SYSTEM	PLAN	I No 2-154
FORM NIS-2 OWNER'S REPOR	T FOR REPAIRS OR R	EPLACEMENTS (Back)	*
Tests Conducted: Hydrostatic Pneumai Test Pressure: Psig Component Design Pressur	c Nominal Operat Test Te		X None
Remarks: None			
		•	*
		,	-
			* * * *
			• •
			,
		· · · · · · · · · · · · · · · · · · ·	
CERTIFIC	ATE OF COMPLIANCE	7	
We certify that the statements made in this to the rules of the ASME Code, Section XI.	)wner's Report are corre	e <b>ct and this</b> replacement <b>conf</b>	orms
Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable			· · ·
Expiration Date: Not Applicable		× +	* , . l
Prepared By Julant Such	Signed By	uldih Guish	
Kuldip Singh - Program Lead Enginee	(PLE) Signed By Kulo	dip Singh - Program Lead Engineer	(PLE)
Date5125198	Date	5 25 9 8	•
CERTIFICATE	OF INSERVICE INSPEC	TION	]:
<i>I, the undersigned, holding a valid commiss</i> <i>Vessel inspectors and the State of</i>	and employed	by	}
de a stille al la Aleia Ossana da Dan a Aleia a Aleia	······································	have inspected the compor	
described in this Owner's Report during the state to the best of my knowledge and belief corrective measures described in this Owne ASME Code, Section XI.	the Owner has perform 's Report in accordance	e with the requirements of t	the
By signing this certificate neither the inspect implied, concerning the examinations and c Furthermore, neither the inspector nor his e injury or property damage or a loss of any k	prrective measures desc mployer shall be llable l	cribed in this Owner's Repo n any manner for any perso	rt.
Not Required - Replacement 1* NPS And Smaller	Osmulasiana		·
	Commissions		
Inspector's Signature Date	Commissions Na	tional Board, State, and Endorseme	ents -

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	WASHINGTON PUBLIC POWER
$\mathbf{\Lambda}$	SUPPLY SYSTEM
	OOTT DT OTOTOT

## 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: Service Water (SW) System
  - 5. (a) Applicable Construction Code: ASME Section III, Code Class 3, 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
Spare Relief Valve (SW-RV-1B)	Crosby	N67441-00-0002	N/A .	N/A	1983	Replacement	Yes, Code Class 3

7. Description Of Work Performed: Replaced parts for spare relief valve Serial No N67441-00-0002. The replacement work was performed as follows:

1) Removed existing disc from the spare relief valve.

2) Installed new replacement disc Serial No N91855-50-0099 in the spare relief valve.

3) Removed existing base from the spare relief valve.

4) Installed new replacement base Serial No N91850-37-0027 in the spare relief valve.

#### NOTES -

1) Spare relief valve Serial No N67441-00-0002 was previously installed in the plant as SW-RV-1B.

Date: 03/23/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1544

		× *		_	PLAN No 2-1	1544
			Y SYSTEM			
FC	RM NIS-2 OWNER'S	REPORT FOR	REPAIRS OR	REPLACEMEN	TS (Back)	
Tests Conducte	d: Hydrostatic 🛄 I Test Pressure: Psig Component Design	Pneumatic	Test	rating Pressure Temperature: ^o F perature: ^o F		one
Remarks: None						
	-					
	۰ ۰			s -	•	
			,			
	C	CERTIFICATE O	F COMPLIAN		· , :	7
We certify that	the statements made	e in this Owner's	Report are c	orrect and this red	lacement <i>conforms</i>	
to the rules of Type Code Sy Certificate Of Expiration Dat	the ASME Code, Sect mbol Stamp: Not Applice Authorization No.: Not	Non XI. Able Applicable	·	X. I d M		
Prepared By Date	Kuldip Singh - Program Los 3 23 98	ad Engineer (PLE)	Signed By Date	Kuldip Singh - Program	n Lead Engineer (PLE)	
	-1			<u> </u>		Î
L					······	
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		FICATE OF INS		¥	, s 1	
Vessel Inspect of Waltham, Ma period 2/19 Owner Has per	formed examinations	Vashington and en ected the compo definition of the compo and taken correct	mployed by A ments describ state to the b ective measur	rkwright Mutual Ins bed In this Owner est of my knowle es described in ti	urance Company 's Report during the dge and bellef, the	
By signing this implied, conce Furthermore, r	with the requirement certificate neither th rning the examination neither the Inspector I erty damage or a loss	e Inspector nor l ns and corrective nor his employed	his employer e measures d r shall be liabl	makes any warra escribed in this C e in any manner i	wner's Report. for any personal	
<u>A. 111,</u>	Control Signature	5 Coi	mmissions <u>7</u>	National Board, State	NISS IS	
Ins	Spector's Signature					

		PLAN No 2-1545
	SUPPLY SYSTEM	
	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLA As Required By The Provisions Of The ASME Code Sec	
	1. Owner: Washington Public Power Supply System (WPPSS)	Date: 04/17/98
	Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	Sheet: 1 of 1
	2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)	Unit: WNP-2
	Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	
	3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)	•
	(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
	4. Identification Of System: Service Water (SW) System	•

5. (a) Applicable Construction Code: ASME Section III, Code Class 3, 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
Spare Relief Valve	Crosby	N67441-00-0001	N/A	NA	1983	Replacement	Yes, Code Class 3
Spare Relief Valve	Crosby	N67441-00-0002	N/A	NA	1983	Replacement	Yes, Code Class 3

7. Description Of Work Performed: Replaced existing base and disc in relief valve Serial No N67441-00-0001 (SW-RV-1A). The replacement work was performed as follows:

1) Removed existing base from the relief valve.

2) Installed replacement base Serial No N91850-31-0013 in the relief valve. See Note 1 below for the background information pertaining to replacement base Serial No N91850-31-0013.

3) Removed existing disc from the relief valve.

4) Installed new replacement disc Serial No N91855-45-0087 in the relief valve.

#### NOTES -

1) The spare relief valve Serial No N67441-00-0001 was previously installed as SW-RV-1A and was removed from the plant in accordance with ASME Section XI Plan No 2-1278. This relief valve is now considered as spare stock. It was determined that the existing base Serial No N91850-31-0010 in the spare relief valve Serial No N67441-00-0001 (SW-RV-1A) was beyond repair and was scrapped. The replacement base Serial No N91850-31-0013 was removed from another spare relief valve Serial No N67441-00-0002 (SW-RV-1B) and was installed in the spare relief valve Serial No N67441-00-0001 (SW-RV-1A).

2) ASME Section III, Code Class 3, 1974 Edition with Summer 1975 Addenda for the spare relief valve Serial No N67441-00-0001 (SW-RV-1A).

3) ASME Section III, Code Class 3, 1974 Edition with Summer 1975 Addenda for the spare relief valve Serial No N67441-00-0002 (SW-RV-1B).

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	CROSBY	ALVE & GAGI	COMPANY
CROSBY		WRENTHAM, MAS	5 Dulanp Sur 4/11/98
FORM	NV-1 FOR SAFETY AND SAF	ETY RELIEF VALVES	<u> </u>
As re	equired by the Provisions of t	he ASME Code Rules	
·	DATA REPOR Salety and Salety Reli		
Croshy Value			
1. Manufactured By Crosby Valve	Name and Addre		MA 02093
Model No. <u>JR-WR</u> Order No <u>N</u> General Ele	163949D Contract	Date 8/4/83 Nation	1 Board No
2. Manufactured For San Jose, C	A 95125	Curther Ave. Order No	205-YF229
3. Owner Washington	Public Power Supply Name and Address	System - Hanford 2	,
4. Location of Plant Richland, W	••••••		
MPL No. E12B00		· .	
5. Valve Identification Hanford 2	Serial No. <u>N67441-</u>	00-0001 Drawing No. DS-	C-67441 Rev. 0
TypeRelief	Orifice Si	ze_SPL_ Pipe Size	Inlet <u>3/4</u> Outlet 1
Salety.Salety Relief.Pilot.Pov	wer Actuated	Inch Inch	Inch Inch
6. Set Pressure (PSIG) 27	5	48 Rated Te	0 F
Stamped Capacity 15 GPM Water	<u>@ 70°F e 10 % 0</u>		
Hydrostatic Test (PSIG) Inlet	750	Complete Valve	225
7. The material, design, construction at		ASME Gode, Section III.	
<b>A</b>			
Class 3 Edition 19		Summer 1975	,Case No. <u>1711, 156</u>
Class Edition 19 Pressure Containing or Pressure Ref	74,Addenda Date	Summer 1975	,Case No. <u>1711, 156</u> N242-1
· ·	74,Addenda Date Mining Components		N242-1
· ·	74,Addenda Date	* Material	,Case No. <u>1711, 156</u> N242-1 Specification Type or Grade
Pressure Containing or Pressure Rei	74,Addenda Date taining Components Serial No.	* Material	N242-1 Specification
Pressure Containing of Pressure Rei a. Castings Body	74,Addenda Date taining Components Serial No. Identification	Material Including	N242-1 Specification Type or Grade
Pressure Containing of Pressure Ref a. Castings Body Domme Cylinder	74,Addenda Date taining Components Serial No.	* Material	N242-1 Specification Type or Grade
Pressure Containing of Pressure Ref a. Castings Body Booman Cylinder b. Bar Stock and Forgings	74,Addenda Date taining Components Serial No. identification <u>N91851-31-0020</u>	Material Including ASME SA216	N242-1 Specification Type or Grade Gr. WCB
Pressure Containing of Pressure Rei a. Castings Body boxum Cylinder b. Bar Stock and Forgings Steppott:RESS Base	74,Addenda Date taining Components Serial No. Identification	Material Including	N242-1 Specification Type or Grade Gr. WCB
Pressure Containing of Pressure Rei a. Castings Body Boomm Cylinder b. Bar Stock and Forgings Steppott:REOS Base Nozzle	74,Addenda Date taining Components Serial No. Identification <u>N91851-31-0020</u> <u>N91850-31-0010</u>	Material Including ASME SA216 ASME SA479	N242-1 Specification Type or Grade Gr. WCB
Pressure Containing of Pressure Ref a. Castings Body Booms: Cylinder b. Bar Stock and Forgings Support RESS Base Nozzle Disc	74,Addenda Date taining Components Serial No. Identification <u>N91851-31-0020</u> <u>N91850-31-0010</u> <u>N91855-32-0028</u> N92220-31-0026	Material Including ASME SA216 ASME SA479 ASME SB164	N242-1 Specification Type or Grade Gr. WCB Type 316 Class A
Pressure Containing of Pressure Ref a. Castings Body Booman Cylinder b. Bar Stock and Forgings Support Rece Base Nozzle Disc Spring Washers	74,Addenda Date taining Components Serial No. Identification <u>N91851-31-0020</u> <u>N91850-31-0010</u> <u>N91855-32-0028</u> <u>N92220-31-0026</u> <u>N92220-31-0039</u>	Material Including ASME SA216 ASME SA479 ASME SB164 ASME SB164	N242-1 Specification Type or Grade Gr. WCB Type 316 Class A Gr. B6
Pressure Containing of Pressure Ref a. Castings Body Booman Cylinder b. Bar Stock and Forgings StopporkRess Base Nozzle Disc Spring Washers Adjusting Bolt	74,Addenda Date taining Components Serial No. Identification <u>N91851-31-0020</u> <u>N91855-32-0028</u> N92220-31-0026 N92220-31-0029 N92221-31-0020	Material Including ASME SA216 ASME SA479 ASME SB164 ASME SA193 ASME SA193	N242-1 Specification Type or Grade Gr. WCB Type 316 Class A Gr. B6 Gr. B6
Pressure Containing of Pressure Ref a. Castings Body Booman Cylinder b. Bar Stock and Forgings Support Refs Base Nozzle Disc Spring Washers	74,Addenda Date taining Components Serial No. Identification <u>N91851-31-0020</u> <u>N91850-31-0010</u> <u>N91855-32-0028</u> <u>N92220-31-0026</u> <u>N92220-31-0039</u>	Material Including ASME SA216 ASME SA479 ASME SB164 ASME SB164	N242-1 Specification Type or Grade Gr. WCB Type 316 Class A Gr. B6 Gr. B6
a. Castings Body Domin Cylinder b. Bar Stock and Forgings StepporkRise Base Nozzle Disc Spring Washers Adjusting Bolt	74,Addenda Date taining Components Serial No. Identification <u>N91851-31-0020</u> <u>N91855-32-0028</u> N92220-31-0026 N92220-31-0029 N92221-31-0020	Material Including ASME SA216 ASME SA479 ASME SB164 ASME SA193 ASME SA193	Specification Type or Grade Gr. WCB Type 316 Class A Gr. B6 Gr. B6

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SIN N67441-00-0001 Durdif Emp 2/19/98 Serial No. or Material Specification Identification Including Type or Grade NX4691-0001 c. Spring ASTM B166 d. Bolting e. Other Parts such as Pilot Components We certify that the statements made in this report are correct. Mon Date 8/12 19 83 Signed Crosby Valve & Gage Co. By Manufacturer 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 .... and employed by Arkwright-Boston Manufacturers Mutual Insurance Company have inspected the equipment described in this Data Report on  $\frac{C-12}{2}$ _ 19 8 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. - 19 83 Factory Mutual System Date - Commissions Thes # 1287 (Inspector) National Board, State, Province and No.) ZX00421605

Uldip Engl CROSB PANY 21998 *Corrected Report - 2-21-84 PLAN NO.2-1545 CHECKED AND FOUND CERTIFICATION TO MEET THE REQUIREMENTS OF ASME B & PV CODE SECTIONS II AND III 1974 EDITION INCLUDING ADDENDA THRU SUMMER 1975. PART: See Below PART NUMBER: See Below HEAT NUMBER: See Below CUSTOMER ORDER NUMBER: 205-YF229 FACTORY ORDER NUMBER: N63949D QAI: 32044 REV. 3 8/12/83 N67441-00-0001 Quality Assurance Records Specialist Valve Serial Number nda Chartier PART PART NUMBER HEAT NUMBER BASE N91850-31-0010 386068 DISC N91855-32-0028 M7127B SPINDLE N92219-31-0014 835273 SPRING WASHER N92220-31-0026 G1636 11 11 11 N92220-31-0039 CYLINDER N91851-31-0020 9554A SPRING NX4691-0001 NX3503 *ADJUSTING BOLT dC *N92221-31-0020 dC *824616 dC 2.21.84

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	CROSEY VA	ENTHAM, MASS
<i>r</i>	· · ·	PLAN NO.2-15
FORM :	NV-1 FOR SAFETY AND SAFETY equired by the Provisions of the A	RELIEF VALVES Q.C44C-1
	DATA REPORT	SME Code Rules Huraif
	Safety and Safety Relief Va	alves 4[i]
1. Manufactured By Crosby Valv	e & Gage Co., 43 Kendri Name and Address	ck St., Wrentham, MA 02093
Model No. JR-WR Order No General El	N63949D Contract Da ectric Company, 175 Cur	te <u>8/4/83</u> National Board No
2. Manufactured For_San Jose, (	CA 95125	Order No205-YF229
	Name and Address Public Power Supply Sy	stem - Hanford 2
3. Owner	Name and Address	
4. Location of Plant	•••	×. ,
MPL No. EL2BO	ינר דר	
5. Valve Identification Hanford	2Serial No. N67441-00-0	0002 Drawing No. DS-C-67441 Rev. 0
Type <u>Refield</u> Salety.Salety Relief.Pilot.Pov	wer Actuated	SPL Pipe Size Inlet 3/4 Outlet 1 Inch Inch Inch Inch
6. Set Pressure (PSIG) 27		480
		Rated Temperature
Stamped Capacity	e 10 % Overpro	Blowdown (PSIG) 10Z S.P.
		•
	750	225
Hydrestatic Test (PSIG) Inlet	750 Comp	plete Valve 225
Hydrestatic Test (PSIG) inlet		
7. The material, design, construction a	nd workmanship comply with ASME	Code, Section III.
7. The material, design, construction a	nd workmanship comply with ASME	
7. The material, design, construction a	nd workmanship comply with ASME	Code, Section III.
7. The material, design, construction a	nd workmanship comply with ASME 74,Addenda DateSt taining Components	Code. Section III.
7. The material, design, construction a	nd workmanship comply with ASME	Code, Section III.
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> </ul>	nd workmanship comply with ASME 174, Addenda DateSt taining Components Serial No.	Code, Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>Material Specification</u>
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> <li>Body</li> </ul>	nd workmanship comply with ASME 74, Addenda DateSt taining Components Serial No. Identification	Code. Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>Material Specification</u> Including Type or Grade
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> </ul>	nd workmanship comply with ASME 174, Addenda DateSt taining Components Serial No.	Code, Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>Material Specification</u>
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> <li>Body</li> </ul>	nd workmanship comply with ASME 74,Addenda DateSi taining Components Serial No. Identification  N91851-31-0002	Code. Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>Material Specification</u> Including Type or Grade <u>ASME SA216 Gr. WCB</u>
<ul> <li>7. The material. design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> <li>Body</li> <li>Body</li> <li>Body</li> <li>Body</li> </ul>	nd workmanship comply with ASME 74, Addenda DateSt taining Components Serial No. Identification	Code. Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>Material Specification</u> Including Type or Grade
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> <li>Body</li> <li>Boxanx Cylinder</li> <li>b. Bar Stock and Forgings</li> </ul>	nd workmanship comply with ASME 74,Addenda DateSi taining Components Serial No. Identification  N91851-31-0002	Code. Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>Material Specification</u> Including Type or Grade <u>ASME SA216 Gr. WCB</u>
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> <li>Body</li> <li>Boxanx Cylinder</li> <li>b. Bar Stock and Forgings</li> <li>Supported to the Base</li> </ul>	nd workmanship comply with ASME 74,Addenda DateSi taining Components Serial No. Identification  N91851-31-0002	Code. Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>Material Specification</u> Including Type or Grade <u>ASME SA216 Gr. WCB</u>
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> <li>Body</li> <li>Body</li> <li>Boxanx Cylinder</li> <li>b. Bar Stock and Forgings</li> <li>Supportions Base</li> <li>Nozzle</li> <li>Disc</li> </ul>	nd workmanship comply with ASME 074,Addenda DateSt taining Components Serial No. Identification <u>N91851-31-0002</u> <u>N91850-31-0013</u>	Code, Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>Material Specification</u> Including Type or Grade <u>ASME SA216 Gr. WCB</u> <u>ASME SA479 Type 316</u>
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> <li>Body</li> <li>Bomanx Cylinder</li> <li>b. Bar Stock and Forgings</li> <li>Supportflow Base</li> <li>Nozzle</li> <li>Disc</li> <li>Spring Washers</li> </ul>	nd workmanship comply with ASME 074,Addenda DateSt taining Components Serial No. Identification N91851-31-0002 N91855-32-0025 N92220-31-0013 N92220-31-0013	Code. Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u>
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Ref</li> <li>a. Castings</li> <li>Body</li> <li>Body</li> <li>Body</li> <li>Botsex Cylinder</li> <li>b. Bar Stock and Forgings</li> <li>Symposition Base</li> <li>Nozzle</li> <li>Disc</li> <li>Spring Washers</li> <li>Adjusting Bolt</li> </ul>	nd workmanship comply with ASME 074	Code. Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>Material Specification</u> Including Type or Grade <u>ASME SA216 Gr. WCB</u> <u>ASME SA216 Gr. WCB</u> <u>ASME SA479 Type 316</u> <u>ASME SB164 Class A</u> <u>ASME SA193 Gr. B6</u> <u>ASME SA193 Gr. B6</u>
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Res</li> <li>a. Castings</li> <li>Body</li> <li>Body</li> <li>Bomanx Cylinder</li> <li>b. Bar Stock and Forgings</li> <li>Symposition Base</li> <li>Nozzle</li> <li>Disc</li> <li>Spring Washers</li> </ul>	nd workmanship comply with ASME 074,Addenda DateSt taining Components Serial No. Identification N91851-31-0002 N91855-32-0025 N92220-31-0013 N92220-31-0013	Code. Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u> <u>N242-1</u>
<ul> <li>7. The material, design, construction a</li> <li>Class <u>3</u> Edition 19</li> <li>Pressure Containing or Pressure Ref</li> <li>a. Castings</li> <li>Body</li> <li>Body</li> <li>Body</li> <li>Botsex Cylinder</li> <li>b. Bar Stock and Forgings</li> <li>Symposition Base</li> <li>Nozzle</li> <li>Disc</li> <li>Spring Washers</li> <li>Adjusting Bolt</li> </ul>	nd workmanship comply with ASME 074	Code. Section III. <u>ummer 1975</u> , Case No. <u>1711, 1</u> <u>N242-1</u> <u>Material Specification</u> Including Type or Grade <u>ASME SA216 Gr. WCB</u> <u>ASME SA216 Gr. WCB</u> <u>ASME SA479 Type 316</u> <u>ASME SB164 Class A</u> <u>ASME SA193 Gr. B6</u> <u>ASME SA193 Gr. B6</u>

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-11~ Kuldip Som Serial No. or Material Specification Identification Including Type or Grade NX4691-0002 ASTH B166 c. Spring d. Bolting e. Other Parts such as Pilot Components . We certify that the statements made in this report are correct. _____ Signed Crosby Valve & Gage Co. 1983 Date By Z Manufacturer expires September 30, 1983 Certificate of Authorization No. __ 1878 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 Arkwright-Boston Manufacturers Mutual Insurance Company bave. inspected the equipment described in this Data Report on ____ <u>842</u> _ 19_21_ and state that to the best of my knowledge and belief; the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report.Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Factory Mutual System Date 19. h-== 1287 Commissions . (Inspector) National Board, State, Province and No.) ZX0042\635

Kuldip Su CROSB PLAN NO. 2-1545 *Corrected Report - 2-21-84 ac CHECKED AND FOUND CERTIFICATION TO MEET THE REQUIREMENTS OF ASME B & PV CODE SECTIONS II AND III 1974 EDITION INCLUDING ADDENDA THRU SUMMER 1975. PART: See Below PART NUMBER: See Below HEAT NUMBER: See Below CUSTOMER ORDER NUMBER: 205-YF229 FACTORY ORDER NUMBER: N63949D QAI: 32044 REV. 3 N67441-00-0002 8-12-83 Quality Assurance Records Specialist nda Charrier Valve Serial Number PART PART NUMBER HEAT NUMBER BASE 386068 N91850-31-0013 DISC M7127B N91855-32-0025 SPINDLE 835273 N92219-31-0016 SPRING WASHER N92220-31-0043 G1636 11 ** N92220-31-0013 CYLINDER 9554A N91851-31-0002 SPRING NX4691-0002 NX3503 *N92221-31-0009 dC *ADJUSTING BOLT *824616 221.8t ZX00421636

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	WASHINGTON PUBLIC POWER
	SUPPLY, SYSTEM
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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

3.

- 4. Identification Of System: Containment Instrument Air (CIA) 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
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced existing tube fitting material for CIA supply to valve MS-V-22D. The work was performed as follows

1) Removed existing tube fitting material.

2) Installed new tube fitting material.

Date: 04/03/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1546

PLAN No 2-15 SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
ests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F
lemarks: None
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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. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable
Prepared By Lutan Supb Kuldip Singh - Program Lead Engineer (PLE) Date 4 3 98 Date 4 3 98
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 and employed by have inspected the components
described in this Owner's Report during the period to to 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.
Not Required - Replacement 1* NPS And Smaller Commissions Inspector's Signature National Board, State, and Endorsements Date

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# SUPPLY SYSTEM

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

PLAN No 2-1547

1. Owner: Washington Public Power Supply System (WPPSS)	Date: 06/03/98
Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	Sheet: 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)	Unit: WNP-2

Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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

-2

4. Identification Of System: Traversing Incore Probe (TIP) System

5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 1986 Edition with 1986 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' <del>s</del> Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
TIP-V-3	Crosby	N96297-00-0003	N/A	N/A	1988	Replacement	Yes, Code Class 2
Existing Ball	Crosby	N95060-31-0003	N/A	N/A	1988	Replaced	No, Code Class 2
Replacement Ball	Crosby	N95060-33-0009	N/A	N/A	1998	Replacement	No, Code Class 2

7. Description Of Work Performed: Replaced existing ball for valve TIP-V-3, Serial No N96297-00-0003. The replacement work was performed as follows:

1) Removed existing ball, Serial No N95060-31-0003 from the valve.

2) Installed new replacement ball, Serial No N95060-33-0009 in the valve.

	PLAN No 2-1
	JPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT	FOR REPAIRS OR REPLACEMENTS (Back)
Tests Conducted: Hydrostatic [] Pneumatic Test Pressure: Psig Component Design Pressure:	Test Temperature: ° F
Remarks: None	
	· ·
CERTIFIC	ATE OF COMPLIANCE
We certify that the statements made in this C 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	Dwner's Report are correct and this replacement conforms
Kuldip Singh - Program Lead Engineer	
Date6398	Date6[3(98
	· · · · · · · · · · · · · · · · · · ·
CERTIFICATE	OF INSERVICE INSPECTION
l, the undersigned, holding a valid commissi Vessel inspectors and the State of	on issued by the National Board of Boiler and Pressure and employed by
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 Implied, concerning the examinations and co Furthermore, neither the inspector nor his el	have inspected the components period
Not Required - Replacement 1" NPS And Smaller	Commissions
Inspector's Signature	Halona Doald, Cald, and Endorcemente

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	PLAN No 2-154
MASILINGTON PUBLIC PORER	•
SUPPLY SYSTEM	
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLA	CEMENTS
As Required By The Provisions Of The ASME Code Sec	
	•
1. Owner: Washington Public Power Supply System (WPPSS)	<b>Date:</b> 05/04/98
Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	• Sheet: 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)	Unit: WNP-2
Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	,
3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)	•
(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: Fuel Pool Cooling (FPC) System	••
5. (a) Applicable Construction Code: ASME Section III, Code Class 3, 1971 Edition with Winter	er 1973 Addenda, Code Case: None
(b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacemer Code Case: None	nts: 1989 Edition with no Addenda,
6. Identification Of Components Repaired Or Replaced And Replacement Compo	onents

Name Of Component	Name Of Manufacturer	Manufacturer' <del>s</del> Serial No	National Board 'No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
FPC-P-1A	Worthington -	44 0000019 (3 LR 9)	N/A ,	N/A	1977	Replacement ·	Yes, Code Class 3

7. Description Of Work Performed: Replaced mechanical seals (gland plate) for pump FPC-P-1A. The replacement work was performed as follows: •

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 Removed existing inboard mechanical seal (gland plate) from the pump.
 Installed new inboard mechanical seal (gland plate) in the pump.
 Installed new inboard mechanical seal (gland plate) in the pump.
 Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the joints. No evidence of leakage during the pressure test.

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	PLAN No 2 MASHINGTON PUBLIC POWER SUPPLY SYSTEM	2-154
	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
3 Tests Conc	ducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 98 Psig Test Temperature: 79° F Component Design Pressure: 150 Psig Temperature: 212° F	None
9. Remarks: 1	None ,	•
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	CERTIFICATE OF COMPLIANCE	· · ·
Expiration	Of Authorization No.: Not Applicable         Date: Not Applicable         By <u>Fulch</u> Kuldip Singh - Program Lead Engineer (PLE)         S) 4-98         Date	-
	CERTIFICATE OF INSERVICE INSPECTION	_
Vessel Ins of Waltham, period <u>Constant</u> Owner has in accorda By signing implied, co Furthermo	rsigned, holding a valid commission issued by the National Board of Boiler and Pressure pectors and the State of Washington and employed by Arkwright Mutual Insurance Company Massachusetts have inspected the components described in this Owner's Report during the 25-95 to 5-97 and state to the best of my knowledge and belief, the performed examinations and taken corrective measures described in this Owner's Report nce with the requirements of the ASME Code, Section XI. I this certificate neither the Inspector nor his employer makes any warranty, expressed or oncerning the examinations and corrective measures described in this Owner's Report. re, neither the Inspector nor his employer shall be liable in any manner for any personal roperty damage or a loss of any kind arising from or connected with this inspection.	- E
<u>e///</u>	The war and	
	Inspector's Signature Commissions 748647486 NBZS ES National Board, State, and Endorsements	-
6	-1-1911	
Date	15/18	Ľ

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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
  - Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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' <del>s</del> Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
CVB-V-1ST	Anderson Greenwood	VB 7899	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced front snubber for Containment Vacuum Breaker (CVB) valve CVB-V-1ST. The replacement work was performed as follows:

1) Removed existing front snubber Serial No 30494 from the valve.

2) Installed new replacement front snubber Serial No 30927 for the valve.

#### NOTES -

1) ASME Section III, Code Class 2 for valve CVB-V-1ST, Serial No VB 7899.

2) ASME Section III, Code Class NF(1) for snubber Serial No 30927. ASME Section III, Code Class NF(1) snubber for ASME Section III, Code Class NF(2) application.

Date: 05/20/98 Sheet: 1 of 1 Unit: WNP-2

Test Pressure: Paig       Test Temperature: ° F         Component Design Pressure: Paig       Test Temperature: ° F         Iemarks: None       CERTIFICATE OF COMPLIANCE         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, Saction XI.         Type Code Symbol Stamp: Not Applicable       Certificate Of Authorization No: Not Applicable         Expiration Date: Not Applicable       Signed By       Lucay b         Kukdip Singh - Prefram Load Engineer (PLE)       Signed By       Signed Prepared By         Kukdip Singh - Prefram Load Engineer (PLE)       Signed By       Signed Prepared By         Kukdip Singh - Prefram Load Engineer (PLE)       Signed By       Signed By         Kukdip Singh - Prefram Load Engineer (PLE)       Signed By       Signed By         Kukdip Singh - Prefram Load Engineer (PLE)       Signed By       Signed By         Kukdip Singh - Prefram Load Engineer (PLE)       Signed By       Signed By         Kukdip Singh - Prefram Load Engineer (PLE)       Signed By       Signed By         Kukdip Singh - Prefram Load Engineer (PLE)       Signed By       Signed By         Matamation and tage components described in this Cowner's Report during the period Signed By Signed By Kendipt Mutual Insurance Company of Wakinange signed By Kendipt Mutual Insurance Co	-	
ests Conducted: Hydrostatic       Pneumatic       Nominal Operating Pressure       Other       None         Test Pressure: Psig       Test Temperature: ° F         Component Design Pressure: Psig       Temperature: ° F         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         Expiration Date: Not Applicable         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 of Watham, Massechusetts have Inspector for his employed by Arkwright Mutual Insurance Company of Watham, Massechusethave Inspector nor his employer makes any warranty, ex	WASHINGTON PUBLIC POWER	1550
ests Conducted: Hydrostatic       Pneumatic       Nominal Operating Pressure       Other       None         Test Pressure: Psig       Test Temperature: ° F         Component Design Pressure: Psig       Temperature: ° F         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         Expiration Date: Not Applicable         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 of Watham, Massechusetts have Inspector for his employed by Arkwright Mutual Insurance Company of Watham, Massechusethave Inspector nor his employer makes any warranty, ex	FORM NIC 2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
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         Muddle Singh - Prediram Load Engineer (PLE)         Date         Signed By         Muddle Singh - Prediram Load Engineer (PLE)         Date         Signed By         Muddle Singh - Prediram Load Engineer (PLE)         Date         Signed By         Muddle Singh - Prediram Load Engineer (PLE)         Date         Signed By         Muddle Singh - Prediram Load Engineer (PLE)         Date         Signed By the National Board of Boiler and Pressure         Vessel Inspectors and the State of Washington and employed by Arkwinght Mutual Insurance Company of Wathham, Massachusetts have Inspector to the best of on the Nowner's Report         Owner has performed examinations and taken corrective measures described in this Owner's Report         Owner has performed examinations an	ests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X N Test Pressure: Psig Test Temperature: ° F	lone
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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 Muldip Singh - Program Load Engineer (PLE) Signed By		
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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	CERTIFICATE OF COMPLIANCE	
If 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         of Waltham, Massachusetts have Inspected the components described in this Owner's Report during the         period <u>J7798</u> to <u>5723798</u> 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 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.         M.M.M.M.M.       Commissions <u>Mutual Mutual Mutual Mutual Public MUSE PJC.</u>	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 - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE) Signed By Kuldip Singh - Program Lead Engineer (PLE)	-
In 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         In Watham, Massachusetts have Inspected the components described in this Owner's Report during the period <u>577796</u> to <u>57257796</u> 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.         Mathematical Advances       Commissions <u>24864/74860 NTSB 25.</u>		
Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have Inspected the components described in this Owner's Report during the period <u>J779</u> to <u>J72779</u> 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.	CERTIFICATE OF INSERVICE INSPECTION	
	period 57 // 98 to 5/25/78 and state to the best of my knowledge and belief, the	
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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
MS-RV-2C MS-RV-2C	Crosby Crosby	N63790-00-0122 N63790-00-0134 (N56000-01-0037)	N/A N/A	N/A N/A	1981 1973	Replaced Replacement	Yes, Code Class 1 Yes, Code Class 1

7. Description Of Work Performed: Replaced existing relief valve MS-RV-2C. The replacement work was performed as follows: 1) Removed existing relief valve Serial No N63790-00-0122 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) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.
- 4) Performed VT-1 visual examination on six (6) new studs for the relief valve inlet joint. VT-1 visual examination results acceptable.
- 5) Installed replacement relief valve with Serial No N63790-00-0134 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) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.

8) Installed VT-1 visually examined new studs for the relief valve inlet joint.

7) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

#### NOTES -

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0134 was installed is Main Steam (MS) piping system B22-G001C-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The replacement relief valve Serial No N63790-00-0134 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements. Relief valve Serial No N56000-01-0037 (Pre - Modification Serial No) was previously modified by Crosby to Serial No N63790-00-0134.

4) The replacement relief valve Serial No N63790-00-0134 was previously refurbished by NWS Technologies, LLC, 131 Venture Boulevard, Spartanburg, SC 29301. The refurbishment work was performed in accordance with NWS Technologies, LLC VR and NR programs and is documented in ASME Section XI Plan No 2-1537.

Date: 06/05/98 Sheet: 1 of 1 · Unit: WNP-2

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FC	DRM NIS-2 OWNER'S REI	PORT FOR REPAIRS	OR REPLACEME	NTS (Back)
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	t the statements made in t		re correct and this	replacement <i>conforms</i>
	the ASME Code, Section . mbol Stamp: Not Applicable	XI.		*
Certificate Of	Authorization No.: Not Appli	cable		
Expiration Dat				
Prepared By _	Kuldip Singh - Program Load Eng	Signed B	y fuldip	Sauph .
	Kuldip Singh - Program Lead Eng			ram Lead Engineer (PLE)
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CROSBY VALVE & GAGE COMPANY WRENTHAM, MA O.C292, RE PLAN NO. 2-1551 SHEET 1 OF	
لاسلمند بلي بليك 3 10 94 TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS	
1. Work performed by Crosby Valve & Gage Company 43 Kendrick St. Wrentham. MA 02093 (Name and Address) (Repair organization's P.O. No., Job No., etc.). NV4000020 2. Owner WASHINGTON PUBLIC POWER RICHLAND, WA 99352-0968	
(Name and Address) 3. Name and Identification of Nuclear Power Plant	
4. Address of Nuclear Power Plant_RICHLAND_WA         5. a. Identifying NosN63790-00-0134 /         6. a. Identifying NosN63790-00-0134 /         7. (Mfr's Serial No.)         (Mfr's Serial No.)         (Nat'l Bd. No.)         (Jurisdiction No.)         (Other)         (Year Built)         b. Identification of component repaired or replacement component	
6. Tests conducted: Hydrostatic (X) : Pneumatic ( ) Design Pressure ( ) Pressure <u>2370.0</u> psi 7. Identification of System <u>MAIN STEAM</u> 8. Applicable Section(s) <u>III</u> of ASME Code, 19 <u>71</u> Edition	
Addenda NOCode Case 9. Description of workN56000-01-0037 WAS MODIFIED TO N63790-00-0134	
9. Description of Work NSEQUO-01-0037 WAS INUDIFIED TO Nos750-00-0134         (Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)         ASME SEC.XI.1980 EDITION WINTER 1980 ADDENDA.         —         10.Remarks: THIS MODIFICATION CONSISTED OF THE FOLLOWING CHANGES:         —         PART PART NO. MODIFIED TO PART NO.         BODY N90118 N93183-43-0126         BONNET N89717 N93407-41-0052         SPINDLE ASSY K55465         SPERWASHER N89724         S62856-41-0200         SPR.WASHER N89723         SPR.WASHER N89723         SPRING ASSY K55466         SPRING SSY K55466         SPRING NSERT N89715         N93185-52-0202         SPRING NX2689         SPRING NX2689         ADJLBOLT         ADJLBOLT	
SPR.WASHER         N89723         K62857-41-0200	
THR.BRG.ADAPT.N89725         N93409-34-0008         /           ADJ.BOLT         N89726         N93410-36-0132         ////////////////////////////////////	
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-202, NLV. A Certificate Holder's Serial No. N63790.00.013/ SHEET 2 OF 2 The second second second second second second second second A STATE OF THE PARTY OF THE PAR TRANSFER THE THE TARGET AND A STRAFT and the second secon CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and all design, material, and workmanship on this conforms to the applicable section of the ASME Code. MOD. (repair/replacement) Signed O (Authorized Rep. of Repair Organization) (Date) Sec. 5. 1 46 ..... The states of the States and the states of a ייין איי אייניגע אייגע אייגע אייניען איייע איייאאיייע איי אייעראייע אייגע אייגע אייגע אייגע אייגע אייגע אייגע STARS STARS **CERTIFICATE OF INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Massachusetts</u> and employed by <u>Factory Mutual</u> have inspected the repair or replacement described in this report on of <u>Norwood. Massachusetts</u> Feb 24, 1994 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this report. Furthermore, neither the inspector nor his employ shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. **Factory Mutual Systems** 199 Date Signed **Commissions** (Inspector) (Nat'l. Bd., State, Prov. and No.) 

•	• •		PLAN	NO. 2-1551 Kuranp Sings 614198
<b>6</b>	WPPSS.S/N	WPPSS Set	<u>Bailly S/N</u>	Bailiy Set
÷	N63790-00-0134	1175	N56000-01-0037	1175 7
	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	CROSBY V	ALVE & C	AGE CUMI	PANY
SODU NU	-1 FOR SAFETY AND SAF	TY PET IEF VALVE	S Q.C.	·44A ·
As requ	uired by the Provisions of th	e ASME Code Rules		
	DATA REPORT			
	Safety and Safety Relie	(Valves		
. Manufactured By Crosby Valve	& Gage Co., 43 Ken	drick St., Wre	ntham, Mass. 020	093
UD-65-DD-EN	Name and Addres		6/28/7	71
Model No. HB-65-BP-FN General Elect	_Order No	200 Con	ract Date	
Manufactured For San Jose, Cal	lifornia	Or	ier No 205-AI	)148
Na	ame and Address	•		
. Owner Northern Indiana Publ			g Station Nuclea	ir I,
:	Name and Address	. В	aileytown, India	ina
. Location of PlantBaileytown,	Indianá			
			H-56000 Por	
. Valve Identification MPL #B-22-FC	<u>J13_</u> Serial No. <u>_N56000-</u>	01-0037 Drawing P	ю. <u> — н-роцоо ке</u> ч	
TypeSafety Relief	Orifice Siz	e Pipe Size	<u>- inlet 6 Ou</u>	tlet10
Safety.Safety Relief.Pilot.Powe	er Actuated	Inch	Inch Inch	Inch
, Set Pressure (PSIG) 11.75	·		<u>575°</u>	
			Rated Temperature	
			E	
Stamped Capacity883950	Lbs. Hr. 2 7. Ov	erpressure 🛄 🗝 🔤 Blov	vdown (PSIG)	7
Stamped Capacity 883950 Sat. Steam				7
Stamped Capacity 883950 Sat. Steam Hydrostatic Test (PSIG) Inlet				
Sat. Steam Hydrostatic Test (PSIG) Inlet	2370	Complete Valve	825	
Sat. Steam	2370 0	Complete Valve	825	<u>77</u>
Sat. Steam Hydrostatic Test (PSIG) Inlet	2370 0	Complete Valve	825 II.	·7
Sat. Steam Hydrostatic Test (PSIG) Inlet The material, design, construction and Class 1 Edition KWXXX	2370 c i workmanship comply with A 1971	Complete Valve	825 II.	
Sat. Steam Hydrostatic Test (PSIG) Inlet	2370 c i workmanship comply with A 1971	Complete Valve	825 II.	
Sat. Steam Hydrostatic Test (PSIG) Inlet The material, design, construction and Class 1 Edition KWXXX	2370 c i workmanship comply with A 	Complete Valve	825 II.	·7.
Sat. Steam Hydrostatic Test (PSIG) Inlet . The material, design, construction and Class L Edition KWXXX	2370 c i workmanship comply with A 1971	Complete Valve SME Code, Section I Addenda Date I	825 II. Summer 1972 Material Specification neluding Type or Grade	
Sat. Steam Hydrostatic Test (PSIG) Inlet The material, design, construction and Class <u>1</u> Edition KWXIX Pressure Containing or Pressure Reta a.XXXNKMX Forgings	2370 i workmanship comply with A <u>1971</u> ining Components Serial No. Identification	Complete Valve SME Code, Section I Addenda Date I ASTM	825 II. Summer 1972 Material Specification including Type or Grade A-105-71 Gr. I	
Sat. Steam Hydrostatic Test (PSIG) Inlet . The material, design, construction and Class Edition KMXXX Pressure Containing or Pressure Reta	2370 i workmanship comply with A 	Complete Valve SME Code, Section I Addenda Date ASTM ASME ASME	825 Material Specification neluding Type or Grade A-105-71 Gr. II SA-105 Gr. II A-105-71 Gr. I	I
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Sat. Steam Hydrostatic Test (PSIG) Inlet The material, design, construction and Class Edition KNXXX Pressure Containing or Pressure Reta a.XXXNKHX Forgings Body BonnetXXXXXXX b. Bar Stock and Forgings XMXXXXXXXXXXXXXX Disc Insert Nozzle Disc Holder	2370 i workmanship comply with A 	Complete Valve SME Code, Section I Addenda Date ASTM ASME ASME ASTM ASTM ASTM ASTM ASTM ASTM	825 Material Specification neluding Type or Grade A-105-71 Gr. I SA-105 Gr. II A-105-71 Gr. I SA-105 Gr. II A-105-71 Gr. I SA-105 Gr. II A-182-71 F316 SA-182 F316	I I 630
Sat. Steam Hydrostatic Test (PSIG) Inlet The material, design, construction and Class Edition KNXX Pressure Containing or Pressure Reta a.XXXNKHX Forgings Body BonnetXXXXXXX b. Bar Stock and Forgings XMNAXXXXXXXX Disc Insert Nozzle Disc Holder Top	2370 i workmanship comply with A 	Complete Valve SME Code, Section I Addenda Date ASTM ASME ASME ASTM ASTM ASTM ASTM ASTM ASTM	825 Material Specification neluding Type or Grade A-105-71 Gr. I SA-105 Gr. II A-105-71 Gr. I SA-105 Gr. II A-461-65 Type A-182-71 F316 SA-182 F316 6662 B A-105-71 Gr. I SA-105 Gr. II	I I 630 I
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Sat. Steam Hydrostatic Test (PSIG) Inlet . The material, design, construction and Class <u>1</u> Edition KWXIX Pressure Containing or Pressure Reta a.XXXXNKHX Forgings Body BonnetXXXXKX b. Bar Stock and Forgings XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2370 i workmanship comply with A 	Complete Valve LSME Code, Section I Addenda Date ASTM ASME ASME ASTM ASTM ASTM ASTM ASTM ASTM ASTM ASTM ASTM	825 Material Specification neluding Type or Grade A-105-71 Gr. I SA-105 Gr. II A-105-71 Gr. I A-105-71 Gr. I A-105 Gr. II A-105 Gr. II A-105 Gr. II A-105 Gr. II A-105 Gr. II A-105 Gr. II A-105 Gr. II SA-105 Gr. II A-193-71 Gr. B	I I 630 I 6 630

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	Senal No. or	Material Specification
	Identification . •	Including Type of Grade
c. Spring	NX2689-0042	ASTM A-304-66 Gr. 4161H
d. Bolting		·
e. SIMNER RAISE KOED XHX HX AXAXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Micros	ASTM A-193-71 Gr. B7
Inlet Stud	<u>N89727-0433 thru 0444</u>	ASME SA-193 Gr. B7
Inlet Stud Nut	N89728-0437 thru 0448	
Bonnet Stud	N89718-0437 thru 0448	ASME SA-193 Gr. B7
Bonnet Stud Nut	N89719-0439 thru 0450	
•	· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , ,
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 $\sqrt{2}$		Alleman
	e in this report are correct. Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer	QA Manager
Date <u>10-31</u> 1973	Signed <u>Crosby Valve &amp; Gage Co</u>	QA Manager
Date <u>10-31</u> 1973	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer	QA Manager
Date <u>10-31</u> 1973	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer	QA Manager
Date <u>10-31</u> 1973	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer <u>331</u> expires <u>Novembe</u>	QA Manager
Date <u>10-31</u> 1973 Certificate of Authorization No	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer <u>331</u> expires <u>Novembe</u> CERTIFICATE OF SHOP INSPECTIO	QA Manager er 9, 1974
Date <u>10-31</u> 1973 Certificate of Authorization No	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer <u>331</u> expires <u>Novembe</u> CERTIFICATE OF SHOP INSPECTIO olding a valid commission issued by the f	QA Manager er 9, 1974 N National Board of Boiler and 1855, and employed by
Date <u>10-31</u> 1973 Certificate of Authorization No I. the undersigned, ho Pressure Vessel Inspec Mutual Boiler &	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer <u>331</u> expires <u>Novembe</u> CERTIFICATE OF SHOP INSPECTIO olding a valid commission issued by the f ctors and the State or Province of <u>Machinery Insprance Co.*</u> , W	QA Manager er 9, 1974 N National Board of Boiler and Mass and employed by Jaltham, Mass have
Date <u>10-31</u> 1973 Certificate of Authorization No I. the undersigned, ho Pressure Vessel Inspec Mutual Boiler & inspected the equipment state that to the best o	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer <u>331</u> expires <u>Novembe</u> CERTIFICATE OF SHOP INSPECTIO olding a valid commission issued by the f	QA Manager er 9, 1974 N National Board of Boiler and <u>Mass</u> and employed by <u>Val tham, Mass</u> have <u>where is 1 1973</u> and uter has constructed this equip-
Date <u>10-31</u> 1973 Certificate of Authorization No I. the undersigned, ho Pressure Vessel Inspect Mutual Boiler & inspected the equipment state that to the best o ment in accordance wit By signing this certific	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer <u>331</u> expires <u>November</u> <u>CERTIFICATE OF SHOP INSPECTIO</u> olding a valid commission issued by the f ctors and the State or Province of <u>Machinery Insprance Co.*</u> , w it described in this Data Report on <u>OC</u> f f my knowledge and belief, the Manufactu h the applicable Subsections of ASME Se icate, neither the Inspector nor his emplo	QA Manager er 9, 1974 N National Board of Boiler and <u>Mass.</u> and employed by <u>Val tham, Mass.</u> have <u>relaction</u> 1973 and uter has constructed this equip- tection III.
Date <u>10-31</u> 1973 Certificate of Authorization No I. the undersigned, ho Pressure Vessel Inspec Mutual Boiler & inspected the equipment state that to the best o ment in accordance wit By signing this certific pressed or implied, con the Inspector nor his er	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer <u>331</u> expires <u>November</u> <u>CERTIFICATE OF SHOP INSPECTIO</u> olding a valid commission issued by the r ctors and the State or Province of <u>Machinery Inspirance Co.*</u> , w <u>Machinery Inspirance Co.*</u> , w it described in this Data Report on <u>Oc</u> f f my knowledge and belief, the Manufactu h the applicable Subsections of ASME Se icate, neither the Inspector nor his employer corning the equipment described in this is mployer shall be liable in any manner for	QA Manager <u>er 9, 1974</u> N National Board of Boiler and <u>Mass.</u> and employed by <u>Val tham, Mass.</u> have <u>val constructed this equip- ection III.</u> by er makes any warranty. ex- Data Report. Furthermore. neither any personal injury of property
Date <u>10-31</u> 1973 Certificate of Authorization No I. the undersigned, ho Pressure Vessel Inspece Mutual Boiler & inspected the equipment state that to the best o ment in accordance wit By signing this certific pressed or implied, con the Inspector nor his er damage or a loss of any	Signed <u>Crosby Valve &amp; Gage Co</u> Manufacturer <u>331</u> expires <u>November</u> CERTIFICATE OF SHOP INSPECTIO olding a valid commission issued by the f ctors and the State or Province of <u>Machinery Insarance Co.*</u> , while the described in this Data Report on <u>Oc</u> f f my knowledge and belief, the Manufacture h the applicable Subsections of ASME Se icate, neither the Inspector nor his employer icerning the equipment described in this I mployer shall be liable in any manner for whith arising from or connected with this *Factory Mutual Gr	QA Manager <u>er 9, 1974</u> N National Board of Boiler and <u>Mass.</u> and employed by <u>Val tham, Mass.</u> have <u>val constructed this equip- ection III.</u> by er makes any warranty. ex- Data Report. Furthermore. neither any personal injury of property
Date <u>10-31</u> 1973 Certificate of Authorization No Determinicate of Authorization No I. the undersigned, how Pressure Vessel Inspect Mutual Boiler & inspected the equipment state that to the best of ment in accordance with By signing this certific pressed or implied, cond the Inspector nor his er damage or a loss of any Date Ceteberr 31	Signed <u>Crosby Valve &amp; Gage Co</u> <u>Manufacturer</u> <u>331</u> expires <u>November</u> <u>CERTIFICATE OF SHOP INSPECTIO</u> olding a valid commission issued by the H ctors and the State or Province of <u>M</u> <u>Machinery Instrance Co.*, W</u> actions of the State or Province of <u>M</u> <u>Machinery Instrance Co.*, W</u> t described in this Data Report on <u>Oc</u> + f my knowledge and belief, the Manufactu h the applicable Subsections of ASME Se icate, neither the Inspector nor his employ cerning the equipment described in this I mployer shall be liable in any manner for y kind arising from or connected with this <u>*Factory Mutual Gr</u> <u>19 73</u>	QA Manager <u>er 9, 1974</u> N National Board of Boiler and <u>Mass</u> , and employed by <u>Val tham</u> , <u>Mass</u> , have <u>vel c 21</u> <u>1973</u> and urer has constructed this equip- ection III. over makes any warranty, ex- Data Report. Furthermore, neither any personal injury or property 5 inspection. Topp of Insurance Co.
Date <u>10-31</u> 1973 Certificate of Authorization No Description of Authorization No Certificate of Authorization No I. the undersigned, how Pressure Vessel Inspect Mutual Boiler & Inspected the equipment state that to the best of ment in accordance with By signing this certific pressed or implied, condition the Inspector nor his eric damage or a loss of any Date Cetaberr 31	Signed <u>Crosby Valve &amp; Gage Co</u> <u>Manufacturer</u> <u>331</u> expires <u>November</u> <u>CERTIFICATE OF SHOP INSPECTIO</u> olding a valid commission issued by the 1 ctors and the State or Province of <u>Machinery Insprance Co.*</u> , with t described in this Data Report on <u>Oc</u> + f my knowledge and belief, the Manufactur h the applicable Subsections of ASME Se icate, neither the Inspector nor his employer cterning the equipment described in this I mployer shall be liable in any manner for y kind arising from or connected with this <u>*Factory Mutual Gr</u> <u>19 73</u> <u>Machinery Commissions</u> <u>M.B. 6C.6</u>	QA Manager <u>er 9, 1974</u> N National Board of Boiler and <u>Mass</u> and employed by <u>Val tham, Mass</u> have <u>val tham</u> , Mass have <u>val tham} have</u> have <u>val tha</u>

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			NGTON PUBLIC PPLY SYS			, ,	PLAN No 2-1552
		OWNER'S REPOR ired By The Provis	• • • • • • • • • • • • • • • • • • • •				
Address: WN 2. Plant: Washing Address: WN 3. (a) Work Peri (b) Repair Org (c) Type Code (d) Certificate (e) Expiration 4. Identification 5. (a) Applicable	P-2 Plant Site, North gton Public Power Su P-2 Plant Site, North formed By: Washi ganization P.O. I Symbol Stamp Of Authorizatio Date: Not Applicab Of System: Serv Construction C Edition Of ASI	n No.: Not Applicable	uclear Power F and, Washingto by System (WF shington Public Code Class 3,	lant (WNP n, 99352 PSS) Power Su 1971 Edit	pply Syst	Shee Unit: om (WPPSS) vinter 1973 Addenda	
6. Identification	Of Components	Repaired Or Repla	iced And Re	placem	ent Con	nponents .	•
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(71)-1-HPCS	WPPSS	SW(71)-1-HPCS-P1	N/A	N/A	1983	Repaired	Yes, Code Class 3

7. Description Of Work Performed: Cut and rewelded existing welds for flow element SW-FE-8B. The repair work was performed as follows:

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Cut/ground existing welds.
 Made required welds.
 Performed visual examination on the final welds. Visual examination results acceptable.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)         Tests Conducted: Hydrostatic Pressure: Paig Test Temperature: ⁰ F         Component Design Pressure: Paig Test Temperature: ⁰ F         Component Design Pressure: Paig         Test Temperature: ⁰ F         Component Design Pressure: Paig         Test Temperature: ⁰ F         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 Stampicable         Certificate Of Authorization No:: Not Applicable         Explored By		SUPPLY SYSTEM	55
Tests Conducted: Hydrostatic Pressure: Paig       Nominal Operating Pressure: Of Component Design Pressure: Paig       Test Temperature: OF T	FO	RM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
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         Explicit on Date: Not Applicable         Prepared By		d: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: ° F	ne
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       Guide         Kukdip Singh - Program Lead Engineer (PLE)         Date       5125198         Date       5125198         Date       5125198         Outloop       Signed By the National Board of Boiler and Pressure         Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Watham, Massachusetts have Ipspected the components described in this Owner's Report during the Owner fas performed examinations and taken corrective measures described in this Owner's Report for the ASME Code, Section XI.         By signing this certificate neither the Inspector on this employer makes any warranty, expressed or Implied, concerning the examinations and corrective measures described in this Owner's Report.         In accordance with the requirements of the ASME Code, Section XI.         By signing the scattlicate neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the examinations and corrective measures described in this Owner's Report.         In accordance with the requirements of the ASME Code, Section XI.         By signing the scattlicate neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the examinations and corrective measures describ	Remarks: None		
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       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company         of Watham, Massachusetts have Ipspected the components described in this Owner's Report during the         Period       Signing the examinations and taken corrective measures described in this Owner's Report         In accordance with the requirements of the ASME Code, Section XI.       By signing the scattlicate 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.      <			
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       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company         of Watham, Massachusetts have Ipspected the components described in this Owner's Report during the         Period       Signing the examinations and taken corrective measures described in this Owner's Report         In accordance with the requirements of the ASME Code, Section XI.       By signing the scattlicate 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.      <			
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       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kukdip Singh - Program Lead Engineer (PLE)         Date       Signed By         Mutter Signed, 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         of Watham, Massachusetts have Ipspected the components described in this Owner's Report during the period         How 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.         In accordance with the requirements of the ASME Code, Section XI.         By signing the examinations and corrective measures described in this Owner's Report.         Implied, concerning the examinations and corrective			
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       Guide         Kukdip Singh - Program Lead Engineer (PLE)         Date       5125198         Date       5125198         Date       5125198         Outloop       Signed By the National Board of Boiler and Pressure         Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Watham, Massachusetts have Ipspected the components described in this Owner's Report during the Owner fas performed examinations and taken corrective measures described in this Owner's Report for the ASME Code, Section XI.         By signing this certificate neither the Inspector on this employer makes any warranty, expressed or Implied, concerning the examinations and corrective measures described in this Owner's Report.         In accordance with the requirements of the ASME Code, Section XI.         By signing the scattlicate neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the examinations and corrective measures described in this Owner's Report.         In accordance with the requirements of the ASME Code, Section XI.         By signing the scattlicate neither the Inspector nor his employer makes any warranty, expressed or Implied, concerning the examinations and corrective measures describ			٦
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         Mudip Singh - Program Lead Engineer (PLE)         Date       Signed By         Signed By       Signed By         Kuldip Singh - Program Lead Engineer (PLE)         Date       Signed By         Signed By       Signed By         Kuldip Singh - Program Lead Engineer (PLE)         Date       Signed By         Mudip Singh - Program Lead Engineer (PLE)         Date       Signed By         Kuldip Singh - Program Lead Engineer (PLE)         Date       Signed By         Date       Signed By         Bate       Signed By         Later       Signed By         Date       Signed By         Later       Signed By         Later       Signed By         Later       Signed By         Later       Signed By         Date       Signed By         Later       Signed By         Later       Signed By         Later       Signed By         Later       Signed By		CERTIFICATE OF COMPLIANCE	
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 of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period <u>4/4/4</u> to <u>4/25/26</u> 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. MMMMMMM	rules of the AS Type Code Syr Certificate Of A Expiration Dat Prepared By _	ME Code, Section XI.         Inbol Stamp: Not Applicable         Nuthorization No.: Not Applicable         Not Applicable         Stamp: Not Applicable         Withorization No.: Not Applicable         Stamp: Not Applicable         Stamp: Not Applicable         Stamp: Not Applicable         Kuldip Singh - Program Lead Engineer (PLE)         Kuldip Singh - Program Lead Engineer (PLE)	
Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have Inspected the components described in this Owner's Report during the period <u>4/4/14</u> to <u>5/25/26</u> 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.		CERTIFICATE OF INSERVICE INSPECTION	]
Mill Control Commissions #416W/1486 NESP IS	Vessel Inspect of Waltham, Mas period <u>4/4/</u> Owner has per in accordance By signing this implied, conce Furthermore, n	brs and the State of Washington and employed by Arkwright Mutual Insurance Company sachusetts have inspected the components described in this Owner's Report during the formed examinations and taken corrective measures described in this Owner's Report with the requirements of the ASME Code, Section XI. certificate neither the Inspector nor his employer makes any warranty, expressed or rning the examinations and corrective measures described in this Owner's Report. either the Inspector nor his employer shall be liable in any manner for any personal	
Date <u>\$ 21 98</u>	<u>I 111-9</u>	Commissions #486 WISB IS	
	Date <u>5/27</u>	198	Í

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## SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)

Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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 2, 1974 Edition with Winter 1974 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' <del>s</del> Serial No	National Board No	Other I.D.	Year Built	• Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Spare Relief Valve	Anderson Greenwood	97-16627	N/A ,	N/A	1997	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Installed test port for spare relief valve Serial No 97-16627. The work was performed as follows: 1) Machined groove in the spare relief valve discharge flange.

2) Surface finished the grooved surfaces in the spare relief valve discharge flange.

3) Drilled holes in the spare relief valve discharge flange.

4) Installed new male connector on the spare relief valve discharge flange.

5) Made required weld.

6) Performed visual examination on the final weld. Visual examination results acceptable.

7) Performed liquid penetrant (PT) examination on the final weld. Liquid penetrant (PT) examination results acceptable.

8) Installed new cap on the male connector.

#### NOTES-

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1) The modified spare relief valve Serial No 97-16627 was installed in the plant as RHR-RV-5 in accordance with ASME Section XI Plan No 2-1554.

Date: 05/22/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1553

PLAN No 2-1553
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
8 Tests Conducted: Hydrostatic       Pneumatic       Nominal Operating Pressure       Other       X       None         Test Pressure: Psig       Test Temperature: ° F       Component Design Pressure: Psig       Temperature: ° F
9. Remarks: See attached NV-1 Code Data Report for the spare relief valve Serial No 97-16627.
· · · · · · · · · · · · · · · · · · ·
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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. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable
Expiration Date: Not Applicable
Prepared By Julan Rungh Signed By Julan Sugar Load Engineer (PLE) Kuldip Singh - Program Load Engineer (PLE)
Date5/22/98Date5/22/98
* · · · · ·
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 of Watham, Massachusetts have inspected the components described in this Owner's Report during the period
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 7486 WITS IS Inspector's Signature Commissions 7486 WITS IS National Board, State, and Endorsements
Date 5/23/98

	. PLANI	NO. 2-15	53 61000000		48960   PAGE   6
FORM NV-1 CERTIFICATE					
	d by the Provision				• Pg. 1 of _2
1. Manufactured and certified by And	erson, Greenwo	od &.Co.,	3950 Greenbri	iar, Stafford,	<u>TX 77.477</u>
	· · ·	(name)	and address of NV Certificati	Holder)	and a did to
Chufactured for Washington	Public Power 8	Supply:	P.O. Box 968', '	Richland, WA	99352
3. Location of installation Washingto		er Plant,	N. Power Plar		
ND20DS121ADG0183	0.394	•	(name and address)		2
4. Valve <u>ND20DS121ADG01</u> 83 (model no., series no.)	Size(in.)	Nom. ini	et size	Outlet size _	(in.)
5. ASME Code, Section III, Division 1: _	1974	<u> </u>		(class)	NA (Code Case no.)
	(earbon)	Fixed .	70°F		<u>ambient</u> •F
6. Type <u>Spring</u> (spring, pilot or power operated) (se	 t pressure, psig}	pwdown, psi)	(rated temp.) ** .	(hydro. test, psig, inlet) at	
7. Identification 97-16627	·NA		111.1314 R/A		1997
(Gert, Holder's senal no.)	(CRN)	(dri	wing no.)	(Nat'l. Bd. no.)	(year built)
8. Control ring settings <u>NA</u>	• •				
ê	SPARE VA	<i>LYE</i> F	5R RHR-RI	/-5	a Qi L
9. Pressure retaining items:	· •	•	* 	Puld	p. Surs
· ·	Serial No. or		Mat'l. Sne	- Muldi	5110(7)8 
	Identification		Including Type o	or Grade	Strength
	B635	·	SA216-WCB	· ·	70
Body	B623	<u></u>	SA216-WCB	·	70
Bonnet or Yoke	J3288		SA216-WCB		70
Support nous	B613	·		·	70
Nozzle			SA351-CF8M	·	
Disk	B607	·	SA479-316	·	75
Spring Washers Disc Holder	8614	•	SA351-CF8M		70
Susting Scrows, Nut	B548		SA479-316		75
Lodio Screw Gag Plug	8488		SA479-316		75
Spring Screw Ring Pin	B530		SA479-316		75
Bolting Stud	8866612		SA193-B7		105
Other Items Pipe Plug	599VNF		SA105-	•	70
Nut	N4C			<u> </u>	
· AC CDM	1146	10%	SA194-2H		NA 4-16-85
10. Relieving capacity 46_GPM	or fluid, lb/hr)	- @ <u>10%</u>	overpressure as ce	rtified by the National	Board
•	· · · · · · · · · · · · · · · · · · ·	(per			*
11. Remarks:					
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	CERTI	ACATION OF E	ESIGN		•
Design Specification certified by				IA Reg. n	20941
Design Report certified by <u>NA</u>	-111011461-0001-	•	P.E. State	IA Reg. n	NA I
4			/ .L. Oldio	nogi n	
	CERTIFIC	CATE OF COM	MIANCE		
Ne cartify that the statements made in this				for construction of the	ASME Code Section
li, Division 1.	. report are correct and			for construction of the	ASINE COUR, Section
	r	_	•	• •	
IV Certificate of Authorization No	N-2825	·		9/10/99	<u></u>
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Date 6/19/9/ Name Ander	rson, Greenwoo	<u>d &amp; Co.</u> _{Sig}	ned_Joseph_	a. rape	
	(NV Certificate Holder)		<u> </u>	(authorized representativ	•
Sental Information in form of lists, sketc	hes, or drawings may be	used provided (1)	size is 8½ × 11, (2) info	ormation in items 1 throu	gh 4 on this Data Report
is monuted on each shoet, (3) each shoet is num	bered and the number of	sheets is recorded	at the top of this form.		
	· · · · · · · · · · · · · · · · · · ·		A.J., A		LIGHA NI 07007-2200
12/88) Th	ls form (E00042) may be	optained from the	Urder Dept., ASME, 22	Law Drive, Box 2300, Fa	unidia, NJ 07007-2300.
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	•	s Serial No.	÷.*	0	7	<u> </u>	1	£	۶	2	•
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,	₩ <u>· · · ·</u> · · · · · · · · · · · · · · ·	CERTIFICA	TE OF INSPECTION		
_ TY			al Board of Boiler and	Pressure Vessel Inst	ectors and the State or Province
of	and employ	ston, MA		ve inspected the valv	e described in this Data Repor
6.19.97			and belief, the Certif	icate Holder has con	structed this valve in accordance
with the ASME Co	de, Section III, Division 1.		· · · ·	energy and an implied con	ceming the component described
By signing this cer in this Data Report	tificate neither the inspect. Furthermore, neither the	tor nor his employer max inspector sor his emplo	kes any warranty, expr ver shall be liable in an	y manner for any per	cerning the component described conal injury or property damage o
a loss of any kind	arising from or connected	with this inspection.	• • • • • • • • • • • •		* • * * • •
Date 6.19-9	7 Shell	Carl	Commissions _	Tex803	• •
Date Co //	Signed X 4 /	(Authorized Inspector)		(Nat'l. Bd. (Incl. endo	sements) and state or prov. and no.]
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RECEIPT	INSPECTOR / LEVEL /	DATE	:		•
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## SUPPLY SYSTEM

### 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)

Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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 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' <del>s</del> Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
RHR-RV-5	Anderson Greenwood	509258-86-1	N/A	N/A	1979	Replaced	Yes, Code Class 2
RHR-RV-5	Anderson Greenwood	97-16627	N/A	N/A	1997	Replacement	Yes, Code Class 2
•	4						- •

7. Description Of Work Performed: Replaced existing relief valve RHR-RV-5. The replacement work was performed as follows: 1) Removed existing relief valve RHR-RV-5, Serial No 509258-86-1.

2) Installed spare relief valve RHR-RV-5, Serial No 97-16627.

3) Installed new replacement studs and nuts for the relief valve inlet bolted joint.

4) Installed new replacement studs and nuts for the relief valve outlet bolted joint.

5) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve outlet bolted joint. No evidence of leakage during the pressure test.

#### NOTES -

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1) The ASME Code Stamped piping system applicable to the relief valve inlet side is Residual Heat Removal (RHR) piping system RHR(3)-2A-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.

2) The ASME Code Stamped piping system applicable to the relief valve outlet side is Residual Heat Removal (RHR) piping system RHR(4)-1B-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.

3) Relief valve RHR-RV-5, Serial No 97-16627 is certified to comply with ASME Section III, Code Class 2, 1974 Edition with Winter 1974 Addenda requirements.

Date: 05/23/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1554

PARAMONE POWER PROVIDENCE INSPECTION FUNCTION F	SUPPLY SYSTEM	
SUPPLY SYSTEM FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) Test Pressure: 30.7 Pag Test Temperature: at ⁰ F Component Design Pressure: 128 Pag Test Temperature: at ⁰ F Component Design Pressure: 128 Pag Temperature: 480° F Remarks: See attached NV1 Code Data Report for the space relief valve outlet bolted joint was performed during 10CFR50, performation to omfine pressure boundary integrity of the relief valve outlet bolted joint was performed during 10CFR50, performed during 10CFR50, performed during pressure of 120 Pag and design temperature of 480° F Is for the relief valve outlet piping. CERTIFICATE OF COMPLIANCE We certify that the statements made in this Owner's Report are correct and this replacement conforms to the nulles the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable Expiration Date: Not Applicable Prepared By Huddip Singh - Preform Load Engineer (PLE) Audip Singh - Sing Audip Singh - Preform Load Engineer (PLE) Audip Singh -	SUPPLY SYSTEM	
Tests Conducted: Hydrostatic       Pneumatic       Nominal Operating Pressure:       Other         Test Pressure:       30.7 Psig       Test Temperature:       480° F         Remarks:       See attached NM-1 Code Data Raport for the space rolled valve RHP.RV-S, Sarial No 97.16527.       Tremperature:       480° F         VT-2 Visual examination to confirm pressure boundary Integrity of the rolled valve outlet bolied Joint was performed during 10CFR50, nonkik Jocal Laak Rate Test (LTR)       Descent Control (LTR)         Domonent design pressure of 120 Psig and design temperature of 480° F Is for the rolled valve outlet piping.       CERTIFICATE OF COMPLIANCE         We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rolled Symbol Stamp: Not Applicable       Signed By         Expiration Date:       Notificate of Authorization No. Not Applicable       Signed By       Signed By         Prepared By       Luddo Singh - Program Lead Engineer (PLB)       Kuidip Singh - Program Lead Engineer (PLB)         Date       \$ [23 [ 9 & Date       \$ [23 [ 9 & Date       \$ [23 [ 9 & Date]         Vessel Inspectors and the State of Washington and employed by Atkwright Mutual Insurance Company of Waltham, Massachusetts have Inspector row his employed by Atkwright Mutual Insurance Company of Waltham, Massachusetts have Inspector row his employed by Atkwright Mutual Insurance company of Waltham, Massachusetts have Inspector row his employed by Atkwright Mutual Insurance company of Waltham, Massachanye that latken correcervic measures descri	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
Test Pressure: 35,7 Poig       Test Temperature: 81°F         Component Design Pressure: 128 Paig       Temperature: 80°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 Not. Not Applicable         Prepared By <th colspa<="" td=""><td></td></th>	<td></td>	
Deale and NA1 Code Data Report for the spare relief valve RHF.RY-S. Serial No 97-1627.     VT-2 visual examination to compare boundary integrity of the relief valve outlet bolted joint was performed during 10CFR50,     minds J. Load Leak Rato Test (LLRT)     omponent design pressure of 120 Paig and design temperature of 480° F is for the relief valve outlet piping.	Test Pressure: 38.7 Psig Test Temperature: 81° F	
be attached NV-1 Code Data Report for the spare relief valve RHR.RV-5. Serial No 97-1627. VT-2 visual examination to confirm pressure boundary integrity of the relief valve outlet bolted joint was performed during 10CFR50, mix J. Load. Leak Rate Test (LLRT) omponent design pressure of 120 Pelg and design temperature of 480° F is for the relief valve outlet piping.	amarke.	
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	ee attached NV-1 Code Data Report for the spare relief valve RHR-RV-5, Serial No 97-16627. VT-2 visual examination to confirm pressure boundary integrity of the relief valve outlet bolted joint was performed during 10CFR50, endix J Local Leak Rate Test (LLRT)	
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 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 Lucy Sub Signed By Lucy Sub Signed By Lucy Sub Signed Program Lead Engineer (PLE) Nate 23198 Date Signed By Signed By Lucy Sub Signed Program Lead Engineer (PLE) Date 23198 Date Signed By Si	CERTIFICATE OF COMPLIANCE	
o the rules of the ASME Code, Section XI.         Ype Code Symbol Stamp: Not Applicable         Certificate Of Authorization No.: Not Applicable         Signation Date: Not Applicable         Prepared By       July         Kuklip Singh - Program Lead Engineer (PLE)         Signed By         CERTIFICATE OF INSERVICE INSPECTION         the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure         Ferse Inspectors and the State of Washington and employed by Arkwight Mutual Insurance Company         ti Waitham, Massachusetts have Inspected the components described in this Owner's Report during the         field       July         waith any field control is of the ASME Code, Section XI.         By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or         mplied, concerning the examinations and corrective measures described in this Owner's Report.         Guithermore, neither the Inspector nor his employer shall be liable in any manner for any personal negling or a loss of any kind arising from or connected with this inspection.         Mutual       Commissions <u>THILW 74476_WISTB-JE</u> .	We certify that the statements made in this Owner's Report are correct and this replacement conforms	
Dertificate Of Authorization No.: Not Applicable         Expiration Date: Not Applicable         Derepared By       Image: Signed By         Kuldip Singh - Program Lead Engineer (PLE)         Kuldip Singh - Program Lead Engineer (PLE)         Signed By       Image: Signed By         Kuldip Singh - Program Lead Engineer (PLE)         Kuldip Singh - Program Lead Engineer (PLE)         Signed By       Signed By         Kuldip Singh - Program Lead Engineer (PLE)         Signed By       Signed By         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         Y Watham, Massachusetts have inspected the components described in this Owner's Report during the         Versel Inspector with the requirements of the ASME Code, Section XI.         By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or         nplied, concerning the examinations and corrective measures described in this Owner's Report.         Withermore, neither the Inspector nor his employer shall be liable in any manner for any personal night or property damage or a loss of any kind arising from or connected with this inspection.         Mittermore, neither the Inspector nor his employer shall be liable in any manner for any personal night or property damage or a loss	o the rules of the ASME Code, Section XI.	
Expiration Date: Not Applicable         Prepared By       July       Signed By       July       Support         Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh - Program Lead Engineer (PLE)         Date       \$ 23 [98]       Date       \$ 23 [98]         CERTIFICATE OF INSERVICE INSPECTION         Kuldip Singh - Program Lead Engineer (PLE)         Date       \$ 23 [98]         CERTIFICATE OF INSERVICE INSPECTION         Kessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company         Yeasel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company       f Waitham, Massachusetts have Inspected the components described in this Owner's Report during the eeriod         Yeasel Inspectors and the State of Washington and taken corrective measures described in this Owner's Report 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 and accordance with the requirements of the ASME Code, Section XI.         Ye signing this certificate neither the Inspector nor his employer makes any warranty, expressed or mplied, concerning the examinations and corrective measures described in this Owner's Report.         'urthermore, neither the Inspector nor his employer shall be liable in any manner for any personal opury or property damage or a loss of any kind arising from or connected with this Inspection.         'urthermore, neither the Inspec		
Prepared By       Juran       Signed By       Juran       Signed By       Juran       Signed Engineer (PLE)         Nuklip Singh - Program Lead Engineer (PLE)       Kuldip Singh - Program Lead Engineer (PLE)         Date       \$ 23 9 8       Date       \$ 23 9 8         CERTIFICATE OF INSERVICE INSPECTION         the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure         essel inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company         Watham, Massachusetts have inspected the components described in this Owner's Report during the eriod         Juran       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 an 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 mplied, concerning the examinations and corrective measures described in this Owner's Report.         urthermore, neither the inspector nor his employer shall be liable in any manner for any personal nonury or property damage or a loss of any kind arising from or connected with this inspection.         Mattal       Commissions       Turket, WISS & IS		
Kuklip Singh - Profram Lead Engineer (PLE)       Kuklip Singh - Profram Lead Engineer (PLE)         Date       \$ 23 9 8         Date       \$ 23 9 8         Date       \$ 23 9 8         CERTIFICATE OF INSERVICE INSPECTION         Kuklip Singh - Profram Lead Engineer (PLE)         Date       \$ 23 9 8         CERTIFICATE OF INSERVICE INSPECTION         Kuklip Singh - Profram Lead Engineer (PLE)         CERTIFICATE OF INSERVICE INSPECTION         Kuklip Singh - Profram Lead Engineer (PLE)         CERTIFICATE OF INSERVICE INSPECTION         Kuklip Singh - Profram Lead Engineer (PLE)         CERTIFICATE OF INSERVICE INSPECTION         Kuklip Singh - Profram Lead Engineer (PLE)         CERTIFICATE OF INSERVICE INSPECTION         Kuklip Singh - Profram Lead Engineer (PLE)         Kuklip Singher Mathema Matter Commission Issued by the N	Expiration Date: Not Applicable	
Kuklip Singh - Profram Lead Engineer (PLE)       Kuklip Singh - Profram Lead Engineer (PLE)         Date       \$ 23198       Date       \$ 23 98         CERTIFICATE OF INSERVICE INSPECTION         Atte 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         f Waitham, Massachusettis have inspected the components described in this Owner's Report during the         period       12271         to	Prenared By Juddah Stared By Juddah Stored By	
Date <u>\$2398</u> Date <u>\$2398</u> CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boller and Pressure Versel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company f Waltham, Massachusetts have inspected the components described in this Owner's Report during the period <u>1227</u> to <u>5777</u> and state to the best of my knowledge and belief, the Downer has performed examinations and taken corrective measures described in this Owner's Report n 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 mplied, 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. MMMAMMA		
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 f Waitham, Massachusetts have inspected the components described in this Owner's Report during the period <u>1/22/97</u> to <u>5/27</u> and state to the best of my knowledge and belief, the Downer has performed examinations and taken corrective measures described in this Owner's Report and state to the best of my knowledge and belief, the Downer has performed examinations and taken corrective measures described in this Owner's Report 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 mplied, 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 njury or property damage or a loss of any kind arising from or connected with this inspection. Mathematical commissions <u>7416 w1568 55</u> .		
<i>i, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure</i> <i>Vessel inspectors and the State of</i> Washington <i>and employed by</i> Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the <i>period</i> <u>1/22/10</u> to <u>572776</u> 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 mplied, 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.	DaleDaleDaleDaleDale	
<i>A, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure</i> <i>Vessel inspectors and the State of</i> Washington <i>and employed by</i> Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period <u>1/22/10</u> to <u>572/20</u> 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, 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 of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period <u>1/22/90</u>		
Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period <u>1/22/10</u> to <u>5/27/10</u> 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. <u>MMMMMM</u> Commissions <u>7466/74466/0056/555</u>	CERTIFICATE OF INSERVICE INSPECTION	
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.	Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period <u>1/22/9/</u> to <u>5/25/9/</u> 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.	
	Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal	
Date 5/18/98		
	Date 5/19/98	

PLAN NO. 2	-1554 \$189230000.014 P.0	248960 PAGE 2
FORM NV-1 CERTIFICATE HOLDERS' DATA REP	ORT FOR PRESSURE OR VACUUM F	RELIEF VALVES*
	he ASME Code, Section III, Division 1	
1. Manufactured and certified by Anderson, Greenwood &		
ufactured for Washington Public Power & Sup	ply, P.O. Box 968, Richland, I	<u>IA 99352</u>
3. Location of Installation Washington Nuclear Power P	lant, N. Power Plant Loop, Ric	chland, WA 99352
	(name and accress)	paar joka ka at
1074	W-745 2	0n.) NA
S. ASINE COUS, OUGUNIN, DIVISION 1. (edition)	(addenda data) (class)	(Code Case no.)
6. Type <u>Spring</u> <u>183</u> <u>Fixe</u> (spring, priot or power operated) (set pressure, paig) (blowdown,		_at_ambient•F
7 Identification 97-16627 NA	N11.1314 R/A NA	1997
(Cert. Holder's seriel no.) (CRN) 8. Control ring settings NA RHR-RV-5	(drawing no.) (Naril Bd. no.) SN 97-16627	
8. Control ning setungs	<u>, , , , , , , , , , , , , , , , , , , </u>	
9. Pressure retaining items:	Junanp & 5/19/	
Serial No. or	Mat'l. Spec.,	Tensile Strength
Identification B635	Including Type or Grade SA216-WCB	<u>70</u>
Body R623	SA216-WCB	70
Bonnet or toke	SA216-WCB	70
R613	SA351-CF8M	70
R607	SA479-316	75
Disk Saving Weeker Disc Holder B614	SA351-CF8M	70
	SA479-316	75
	SA479-316	
Spring Screw Ring Pin B530	<u>SA479-316</u>	
Bolting Stud 8866612	SA193-B7	105
Other items Pipe Plug 599VNF	SA105-	70
Nut N4C	SA194-2H	NA
10. Relieving capacity 46 GPM @	10% overpressure as certified by the Nati	onal Board <u>4-16-85</u>
(steam or must, conry)	(pai)	•.
11. Remarks:	· · · · · · · · · · · · · · · · · · ·	
·		-
		].
•	ON OF DESIGN	20941
Design Specification certified by -David-Michael-Bosi	110	ΝΔ
Design Report certified byNA	P.E. State NA Re	ig. no Ita
	OF COMPLIANCE	Jaha ASME Cada Castian
We certify that the statements made in this report are correct and that the	his value conforms to the rules for construction o	it the ASME Code, Section
III, Division 1.		-
NV Certificate of Authorization No	Expires 9/10/	99
Date 6/19/97 Name Anderson, Greenwood & INV Certificate Holder)	U. Signed (authorized repres	intative)
<ul> <li>Suppremental information in form of lists, sketches, or drawings may be used pr is included on each sheet, (3) each sheet is numbered and the number of sheets</li> </ul>	ovided (1) size is $8\% \times 11$ , (2) information in items 1 is recorded at the top of this form.	through 4 on this Data Report
· · · ·	d from the Order Dept., ASME, 22 Law Drive, Box 23	00, Fairfield, NJ 07007-2300.

FORM NV-1 (Back - Pg. 2 of -_) the state and the entropy of the state of the 97-16627 .... Certificate Holder's Serial No. a the factor of · • -CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province. of ________ and employed by _______ C.U.I.C. _ and employed by _ , have inspected the valve described in this Data Repoy MA Boston, ., and state that to the best of my knowledge and belief, the Certificate Holder has constructed this valve in accord 6.19.91 . . with the ASME Code, Section III, Division 1. • By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector not his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or conjected with this inspection. .... Date 6-19-97 Signed Commissions (Nat'l. Bd. (incl. endorsements) and state or prov. and no.) (Authorized Inso SATISFACTOR UNSATISFACTORY RECEIPT INSPECTOR LEVEL / DATE



### 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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, 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
RHR(1)-4B	WPPSS	RHR(1)-4B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1

7. Description Of Work Performed: Replaced (fabricated and installed modified vent connection) the existing vent connection with valves RHR-V-606 and RHR-V-631. The replacement (fabrication and installation) work was performed as follows:

1) Fabricated new pipe nipple.

2) Performed liquid penetrant (PT) examination on all the accessible internal final machined surfaces of the new pipe nipple. Liquid penetrant (PT) examination results acceptable.

3) Performed liquid penetrant (PT) examination on all the external final surfaces of the entire length of the new pipe nipple. Liquid penetrant (PT) examination results acceptable.

4) Cut and removed the existing vent connection with valves RHR-V-606 and RHR-V-631.

5) Prepped the existing sockolet surfaces.

6) Performed liquid penetrant (PT) examination on the sockolet prepped surfaces. Liquid penetrant (PT) examination results acceptable.

7) Installed new piping material such as fabricated pipe nipple, coupling and plug.

8) Made required socket welds.

9) Performed visual examination on the final socket welds. Visual examination results acceptable.

10) Performed liquid penetrant (PT) examination on the final socket welds. Liquid penetrant (PT) examination results acceptable.

#### NOTES-

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1) The existing ASME Code Stamped piping system in which the existing vent connection with valves RHR-V-606 and RHR-V-631 was replaced (fabricated and installed modified vent connection) is Residual Heat Removal (RHR) piping system RHR(1)-4B-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

Date: 06/19/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1  SUPPLY SYSTEM  FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)  Tests Conducted: Hydrostatic Preumatic Nominal Operating Pressure Other Not Not Preumatic Not Test Pressure: Paig Test Temperature: ° F Component Design Pressure: Paig Test Temperature: ° F  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  Prepared By Muthorization No.: Not Applicable  Prepared By Muthorization No.: Not Applicable  Prepared By Muthorization No.: Not Applicable  Prepared By Muthorization Program Lead Engineer (PLE)  Date 6 [15] 15 8	
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)         Tests Conducted: Hydrostatic Paig         Pressure: Psig       Nominal Operating Pressure         Component Design Pressure: Psig       Test Temperature: ° F         Component Design Pressure: Psig       Temperature: ° F         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       Judy Buy Signed By         Kuldip Singh - Program Lead Engineer (PLE)	
Tests Conducted: Hydrostatic Pressure: Psig       Nominal Operating Pressure Other X N         Test Pressure: Psig       Test Temperature: ° F         Component Design Pressure: Psig       Temperature: ° F         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       Judgh         Kuldip Singh - Program Lead Engineer (PLE)	lone
Test Pressure: Psig       Test Temperature: ° F         Component Design Pressure: Psig       Temperature: ° F         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       Julian         Kuldip Singh - Program Lead Engineer (PLE)	
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         Certificate Of Authorization No.: Not Applicable         Frepared 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	
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	
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	
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 Uudy Sigh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE)	
Certificate Of Authorization No.: Not Applicable         Expiration Date: Not Applicable         Prepared By       Julip Singh - Program Lead Engineer (PLE)         Kuldip Singh - Program Lead Engineer (PLE)	
Expiration Date: Not Applicable         Prepared By       Juich         Kuldip Singh - Program Lead Engineer (PLE)         Kuldip Singh - Program Lead Engineer (PLE)	
Prepared By       Vuldup       Signed By       Vuldup       Supple         Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh - Program Lead Engineer (PLE)         Date       6 [19] [98       Date       6 [19] [98	
Date G L9 198 Date G L9 198	
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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 and employed by have inspected the components	
described in this Owner's Report during the period to to 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	1
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.	
Not Required - Replacement 1" NPS And Smaller Commissions	
Inspector's Signature National Board, State, and Endorsements Date	-

## SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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 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
MS-RV-2D	Crosby	N63790-00-0124	N/A	N/A	1981	Replacement	Yes, Code Class 1
		• •					

7. Description Of Work Performed: Replaced bolting material for the existing relief valve MS-RV-2D. The existing relief valve MS-RV-2D was removed and reinstalled at the same location. The replacement work was performed as follows:

- 1) Removed existing relief valve Serial No N63790-00-0124.
- 2) Performed VT-3 visual examination on the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable except for one (1) stud for which VT-3 visual examination results were unacceptable. The unacceptable stud was subsequently evaluated and was found to be acceptable.

3) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable.

- 4) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.
- 5) Performed VT-1 visual examination on six (6) new nuts for the relief valve inlet joint. VT-1 visual examination results acceptable.
- 6) Reinstalled existing relief valve with Serial No N63790-00-0124.
- 7) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint.
- 8) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.
- 9) Installed VT-1 visually examined new nuts for the relief valve inlet joint
- 10) Installed three (3) new bolts for the relief valve outlet joint.
- 11) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

#### NOTES -

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0124 was installed is Main Steam (MS) piping system B22-G001D-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The existing relief valve Serial No N63790-00-0124 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements.

Date: 06/05/98 Sheet: 1 of 1 Unit: WNP-2

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				: 1	` <i>`P</i>	LAN No 2-155
		SUF	PLY SYSTEM			•
. F	ORM NIS-2 OWNE	R'S REPORT F	OR REPAIRS O	R REPLACE	MENTS (Back	).
lests Conduc	ted: Hydrostatic Test Pressure: 1 Component Des		Te	perating Pres st Temperatu mperature: 57	re: 240° F	her 🔹
	e test pressure and the t d in accordance with PPI					on XI pressure tes
•				•		•
		/				u I
	-			-		
					•	
		CERTIFICAT	TE OF COMPLIA	NCE		
We certify th	at the statements n	noda in thie Ow	nar's Ranart ara	correct and t	his replacement d	conforme
	of the ASME Code,				ma replacement e	.0.11011113
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	Kuldip Singh - Prograi				Program Lead Eng	ineer (PLE)
Date	<u> </u>		Date		16(10	I
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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
MS•RV-3A	Crosby	N63790-00-0056	N/A	N/A	1980	Replacement	Yes, Code Class 1
			i				

7. Description Of Work Performed: Replaced bolting material for the existing relief valve MS-RV-3A. The existing relief valve MS-RV-3A was removed and reinstalled at the same location. The replacement work was performed as follows:

- 1) Removed existing relief valve Serial No N63790-00-0056.
- 2) Performed VT-3 visual examination on the existing studs for the relief valve inlet joint. VT-3 visual examination results acceptable except for two (2) stud for which VT-3 visual examination results were unacceptable. The unacceptable studs were subsequently evaluated and were found to be acceptable.
- 3) Performed VT-3 visual examination on the existing nuts for the relief valve inlet joint. VT-3 visual examination results acceptable.
- 4) Performed VT-3 visual examination on the existing bolts for the relief valve outlet joint. VT-3 visual examination results acceptable.
- 5) Performed VT-1 visual examination on two (2) new studs for the relief valve inlet joint. VT-1 visual examination results acceptable.
- 6) Reinstalled existing relief valve with Serial No N63790-00-0056.
- 7) Reinstalled VT-3 visually examined existing nuts for the relief valve inlet joint.
- 8) Reinstalled VT-3 visually examined existing bolts for the relief valve outlet joint.
- 9) Installed VT-1 visually examined new stud for the relief valve inlet joint
- 10) Performed VT-2 visual examination during pressure test to confirm pressure boundary integrity of the relief valve inlet joint. No evidence of leakage during the pressure test.

#### NOTES -

1) The existing ASME Code Stamped piping system in which the replacement relief valve Serial No N63790-00-0056 was installed is Main Steam (MS) piping system B22-G001A-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenois requirements.

2) The existing ASME Code Stamped piping system applicable to the relief valve outlet side is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

3) The existing relief valve Serial No N63790-00-0056 is certified to comply with ASME Section III, Code Class 1, 1971 Edition with no Addenda requirements.

Date: 06/05/98 Sheet: 1 of 1 Unit: WNP-2



PLAN No 2-1     SUPPLY SYSTEM      FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)      Tests Conducted: HydrostaticPneumaticNominal Operating PressureOther     Test Pressure: 1024 Pag Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     Test Temperature: 200 ⁺ F     Component Design Pressure: 1250 Pag     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 Cade Symbol Stamp: Not Applicable     Certificate Of Authorization Nox: Not Appleable     Expiration Date: Not Appleable     Certificate INSC. Signed By <u>Kudap Singh- Pressure     Kudap Singh- Presam Laad Engineer (PLE)     Date</u>		
		PLAN No 2-1
		SUPPLY SYSTEM
Test Pressure: 1024 Paig       Test Temperature: 240° F         Component Design Pressure: 1250 Paig       Temperature: 270° F         S. Remarks: "The test pressure and the test temperature on the relief valve hiel joint was recorded during ASME Section XI pressure which was performed in accordance with PPM No OSP-RPV-R801 "Reactor Pressure Vessel Leakage Test:         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       Signed By       Lutture Super Supe	FO	RM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
<b>E. Remarks:</b> * The test pressure and the test temperature on the relief valve initi joint was recorded during ASME Section XI pressure which was performed in accordance with PPM No OSP-RPV-R801 'Reactor Pressure Vessel Leakage Test'. <b>CERTIFICATE OF COMPLIANCE</b> 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 Multip Singh - Program Lead Engineer (PLE) Multip Singh - Program Lead Engineer (PLE) Multip Singh - Program Lead Engineer (PLE) Date <b>CERTIFICATE OF INSERVICE INSPECTION</b> 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 of Watham, Massachusetts have inspected the components described in this Owner's Report In accordance with the requirements of the ASME Code, Section NI.  Type Totage and the State of Washington and employed by Arkwright Mutual Insurance Company of Watham, Massachusetts have inspected the corrective measures described in this Owner's Report In accordance with the requirements of the ASME Code, Section XI. By signifi the certificate neither the Inspector nor his employer makes any warranty, expressed or Impled, concerning the examinations and taken corrective measures described in this Owner's Report In accordance with the requirements of the ASME Code, Section XI. By signifi the certificate neither the Inspector nor his employer makes any warranty, expressed or Impled, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or Impled, concerning the examinations and corrective measures described in this Inspection. Furthermore, neither the Inspector nor his employer Netional Board, State, and Endorsements	8 Tests Conducte	Test Pressure: 1024 Psig Test Temperature: 240° F
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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       July         Kuldip Singh - Program Lead Engineer (PLE)         Date       () b 158         Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Waitham, Massachusetts have Inspected the components described in this Owner's Report during the period         J       () to () () () () () () () () () () () () ()	which was performed in	n accordance with PPM No OSP-RPV-R801 "Reactor Pressure Vessel Leakage Test".
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       July         Kuldip Singh - Program Lead Engineer (PLE)         Date       () b 158         Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Waitham, Massachusetts have Inspected the components described in this Owner's Report during the period         J       () to () () () () () () () () () () () () ()		
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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       July         Kuldip Singh - Program Lead Engineer (PLE)         Date       () b 158         Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company of Waitham, Massachusetts have Inspected the components described in this Owner's Report during the period         J       () to () () () () () () () () () () () () ()	-	
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Date       66598         Date       6698         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 of Waitham, Massachusetts have Inspected the components described in this Owner's Report during the period         J       10         J	Type Code Syl Certificate Of A Expiration Date	mbol Stamp: Not Applicable Authorization No.: Not Applicable e: Not Applicable
Date       6 6 98         Date       6 6 98         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         of Waitham, Massachusetts have inspected the components described in this Owner's Report during the         period       6 8 98         Jac       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 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.         Mational Board, State, and Endorsements         National Board, State, and Endorsements	Prepared By_	Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE)
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 of Wattham, Massachusetts have Inspected the components described in this Owner's Report during the period <u>J</u> to <u>M</u> 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. Mational Board, State, and Endorsements		
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 of Waltham, Massachusetts have Inspected the components described in this Owner's Report during the period <u>J</u> to <u>M</u> to <u>M</u> 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 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. Mational Board, State, and Endorsements		
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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 of Waltham, Massachusetts have Inspected the components described in this Owner's Report during the period <u>J</u> to <u>M</u> 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 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. Mational Board, State, and Endorsements		
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)

Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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' <del>s</del> Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
CVB-V-1QR	Anderson Greenwood	VB 7898	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced front snubber for Containment Vacuum Breaker (CVB) valve CVB-V-1QR. The replacement work was performed as follows:

1) Removed existing front snubber Serial No 30885 from the valve.

2) Installed new replacement front snubber Serial No 30905 for the valve.

#### NOTES-

1) ASME Section III, Code Class 2 for valve CVB-V-1QR, Serial No VB 7898.

2) ASME Section III, Code Class NF(1) for snubber Serial No 30905. ASME Section III, Code Class NF(1) snubber for ASME Section III, Code Class NF(2) application.

Date: 05/20/98 Sheet: 1 of 1 Unit: WNP-2

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	MASHINGTON PUBLIC POWER SUPPLY SYSTEM	PLAN No 2-1559
FORM	, 1 NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (I	Back)
T	Hydrostatic Pneumatic Nominal Operating Pressure est Pressure: Psig omponent Design Pressure: Psig Temperature: ° F	Other 🗙 None
Remarks: None		
	CERTIFICATE OF COMPLIANCE	
Type Code Symb Certificate Of Aut Expiration Date: N	ASME Code, Section XI. ol Stamp: Not Applicable horization No.: Not Applicable Not Applicable Wildip Singh - Program Lead Engineer (PLE) S 20/98 Date	d Engineer (PLE)
	CERTIFICATE OF INSERVICE INSPECTION	
Vessel Inspectors of Waltham, Massa period <u>J</u> Owner has perior	d, holding a valid commission issued by the National Board of Boiler s and the State of Washington and employed by Arkwright Mutual Insuran ichusetts have inspected the components described in this Owner's R to	ce Company eport during the and bellef, the
By signing this ca implied, concerni Furthermore, neit	th the requirements of the ASME Code, Section XI. ertificate neither the inspector nor his employer makes any warranty, ing the examinations and corrective measures described in this Own ther the inspector nor his employer shall be liable in any manner for a damage or a loss of any kind arising from or connected with this ins	er's Report. Any personal
141	Commissions 7464/7486 Ma ctor's Signature National Board, State, and	Endorsements
Date 0	79 <i>2</i>	

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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

- Owner: Washington Public Power Supply System (WPPSS)
   Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
   Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP)
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)

(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 Instrument Air (CIA) 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
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description Of Work Performed: Replaced existing tubing material for CIA supply to valve MS-V-22A. The replacement work was performed as follows:

- 1) Removed existing tubing material such as tubing, union, tee, connector.
- 2) Installed new tubing material such as tubing, union, tee, connector.
- 3) Reinstalled existing valve CIA-V-22A, Serial No PB 1249.

Date: 06/03/98 Sheet: 1 of 1 Unit: WNP-2

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We certify that	the statements made ir	n this Owner	r's Report are	correct s	nd this re	placement	conforme`
	the ASME Code, Section		Shepontare		114 (1113 )	placement	, comornia
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	Authorization No.: Not Ap	plicable					
Expiration Date	e: Not Applicable			_			• •
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Prepared By	Kuldip Singh - Program Lead E		Signed By			<u>-2-21-6</u>	zineer (PLE)
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<i>I, the undersig</i> <i>Vessel Inspect</i> <i>described in th</i> <i>state to the be</i> <i>corrective mea</i> <i>ASME Code, S</i>	CERTIFIC ned, holding a valid con lors and the State of nis Owner's Report durin st of my knowledge and asures described in this lection XI.	nmission is: ng the perio I belief, the ( Owner's Re	ISERVICE IN sued by the I and emp d Owner has pe sport in accom	lational B loyed by _ have t terformed o rdance wi	DN oard of B e inspecto o examinati th the req	ed the coi lons and t juirement	mponents _ and , laken s of the
<i>I, the undersig</i> <i>Vessel Inspect</i> <i>described in th</i> <i>state to the be</i> <i>corrective mea</i> <i>ASME Code, S</i> <i>By signing this</i> <i>implied, conce</i>	CERTIFIC ned, holding a valid con tors and the State of his Owner's Report durin st of my knowledge and asures described in this Section XI. s certificate neither the erning the examinations	nmission is ng the perio I belief, the ( Owner's Re Inspector no and correct	ISERVICE IN sued by the I and emp d Owner has pe port in acco port in acco for his employ	Vational B loyed by have t erformed of rdance wi ver makes s describe	DN oard of B inspecto o examinati th the req any warr ed in this	ed the cor ons and t ulrement anty, exp Owner's	mponents _ and taken s of the ressed or Report.
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<i>I, the undersig</i> <i>Vessel Inspect</i> <i>described in th</i> <i>state to the be</i> <i>corrective mea</i> <i>ASME Code, S</i> <i>By signing this</i> <i>implied, conce</i> <i>Furthermore, t</i>	CERTIFIC ned, holding a valid con lors and the State of his Owner's Report durin st of my knowledge and asures described in this faction XI. s certificate neither the erning the examinations neither the inspector no	nmission is ng the perio I belief, the ( Owner's Re Inspector no and correct r his employ	ISERVICE IN sued by the I and emp d owner has pe port in accor or his employ live measure /er shall be li	Vational B loyed by have t erformed of rdance wi ver makes s describe able in an	ON oard of B inspecto o examination th the req any warn of in this y manned	ed the col lons and t ulrement ranty, exp Owner's r for any p	mponents _ and taken s of the ressed or Report. personal
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I, the undersig Vessel Inspect described in the state to the be corrective mea ASME Code, S By signing this implied, conce Furthermore, r injury or prope	CERTIFIC ned, holding a valid con tors and the State of his Owner's Report durin st of my knowledge and asures described in this fection XI. s certificate neither the terning the examinations neither the inspector no erty damage or a loss of	nmission is ng the perio belief, the ( Owner's Re inspector no and correct r his employ any kind ar	ISERVICE IN sued by the I and emp d Owner has pe port in accor or his employ live measure for his employ live measure for his employ	Vational B loyed by have terformed of rdance wi ver makes s describe able in an connecte	ON oard of B inspecto o examinati th the req any warn ed in this y manne d with th	ed the col lons and t ulrement ranty, exp Owner's r for any p	mponents _and laken s of the ressed or Report. personal tion.

SUPPLY SYSTEM	PLAN No 2-15
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPL As Required By The Provisions Of The ASME Code Se	
1. Owner: Washington Public Power Supply System (WPPSS)	• Date: 06/03/98
Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	Sheet: 1 of 1 -
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	<b>Unit:</b> WNP-2
<ul> <li>3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)</li> <li>(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System</li> <li>(c) Type Code Symbol Stamp: Not Applicable</li> </ul>	n (WPPSS)
(d) Certificate Of Authorization No.: Not Applicable	
(e) Expiration Date: Not Applicable	<b>a</b>
4. Identification Of System: Containment Instrument Air (CIA) System	•
5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 1971 Edition with Win (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replaceme Code Case: None	
	× •

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
CIA(3)-2	WPPSS	ĊIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes; Code Class 2
						· · ·	×.

7. Description Of Work Performed: Replaced existing tubing material for CIA supply to valve MS-V-22B. The replacement work was performed as follows: * т н •

Removed existing tubing material such as tubing, union, tee. connector.
 Installed new tubing material such as tubing, union, tee, connector.
 Reinstalled existing valve CIA-V-22B, Serial No PB 1250.

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	•	PLAN No 2-156
	<b>S</b>	SUPPLY SYSTEM
	FORM NIS-2 OWNER'S REPO	ORT FOR REPAIRS OR REPLACEMENTS (Back)
Tests Condu	cted: Hydrostatic Pneuma Test Pressure: Psig Component Design Pressu	natic Nominal Operating Pressure Other X Non Test Temperature: ° F ure: Psig Temperature: ° F
Remarks: No		
	10	•
		•
		•
	CERTIF	FICATE OF COMPLIANCE
Certificate	Symbol Stamp: Not Applicable Of Authorization No.: Not Applicab Date: Not Applicable By <u>Viuach Suuch</u> Kuldip Singh - Program Lead Engine <u>6 398</u>	5 Signed By Juicing Sugs
[		TE OF INSERVICE INSPECTION
		· · ·
Vessel Ins	rsigned, noising a valid commis pectors and the State of	ission issued by the National Board of Boller and Pressure and employed by
corrective ASME Cod By signing implied, co Furthermo	measures described in this Ow le, Section XI. I this certificate neither the Insp Incerning the examinations and re, neither the Inspector nor his	and employed by
		Commissions
		COMMISSIONS
<u>Not Required</u>	Inspector's Signature	Commissions

#### PLAN No 2-1562 MASHINGTON PUBLIC POWER SUPPLY SYSTEM FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI Date: 06/03/98 1. Owner: Washington Public Power Supply System (WPPSS) Sheet: 1 of 1 Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 Unit: WNP-2 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS) (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 Instrument Air (CIA) 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

Nam <del>e</del> 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
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2
	, `					*	

7. Description Of Work Performed: Replaced existing tubing material for CIA supply to valve MS-V-22C. The replacement work was performed as follows:

1) Removed existing tubing material such as tubing, union, tee, connector. .

2) Installed new tubing material such as tubing, union, tee, connector.

3) Reinstalled existing valve CIA-V-22C, Serial No PB 1245.

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			ON PUBLIC PORE			PL	AN No 2-
-	۲	SUPPI	LY SYSTEM	[]			
FC	ORM NIS-2 OWNER	'S REPORT FOR	R REPAIRS C	OR REPL	ACEMEI	NTS (Back)	)
ests Conducte	ed: Hydrostatic Test Pressure: Psig Component Desig	9		perating st Tempe mperatu	erature: °		ner 🔀 N
Remarks: None							
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		CERTIFICATE	OF COMPLI/	ANCE			
to the rules of	t the statements ma the ASME Code, Se	ection XI.	r's Report are	correct	and this i	eplacement <i>C</i>	onforms
	rmbol Stamp: Not App Authorization No.: N						
Expiration Da	te: Not Applicable				~		
Prepared By_		dures -	_ Signed By	<u>Vui</u>	up_	am Lead Engi	/
Date	Kuldip Singh - Program I 63192	• • •	Date	Kuldip S		-	ineer (PLE)
					<u>eter</u>	<b>-</b>	
···		<u> </u>					<u></u>
			· · · · ·			<u></u>	<u>.</u>
	CER	TIFICATE OF IN	ISERVICE IN	SPECTIC	ON		
l, the undersig Vessel inspec	gned, holding a valid stors and the State o	d commission is: of	and empl	loved by			
described in t	his Owner's Report	during the perio	d			ted the con	
state to the bi	est of my knowledge asures described in	e and belief, the (	Owner has pe	rformed	examina	tions and ta	aken
corrective me ASME Code, 3	Section XI.					wante avai	essed or
corrective me ASME Code, 3 By signing th implied, conc Furthermore,	is certificate neither erning the examinat neither the inspecto	tions and correct or nor his employ	live measures /er shall be ll	s describ able in ar	ed În this ly manne	: Owner's F er for any p	Report. ersonal
corrective me ASME Code, 3 By signing th implied, conc Furthermore,	is certificate neither erning the examinat	tions and correct or nor his employ	live measures /er shall be ll	s describ able in ar	ed În this ly manne	: Owner's F er for any p	Report. ersonal
corrective me ASME Code, s By signing th implied, conc Furthermore, injury or prop <u>Not Required - R</u>	is certificate neither erning the examinat neither the inspecto	tions and correct or nor his employ ss of any kind ar	live measures /er shall be ll	s describ able in ar connect	ed in this by manne ed with ti	: Owner's F er for any p	leport. ersonal lon.

# SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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 Instrument Air (CIA) 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
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2
				:			

7. Description Of Work Performed: Replaced existing tubing material for CIA supply to valve MS-V-22D. The replacement work was performed as follows:

1) Removed existing tubing material such as tubing, union, tee, connector.

- 2) Installed new tubing material such as tubing, union, tee, connector.
- 3) Reinstalled existing valve CIA-V-22D, Serial No PB 1251.

Date: 06/03/98 Sheet: 1 of 1 Unit: WNP-2

PLAN No 2-1563

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)      FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)      Supprise the statements of the statements of the statements of the statement of the statements of the statements of the statements of the statement of the statements of the statement of the statement of the statement of the statement of the state of the statements of the state of the state of the state of the state of the statement of the state of the statement of the statement of the statement of the state of the st						
rests Conducted: Hydrostatic Pressure: Pag       Nominal Operating Pressure. Other Nominat Component Design Pressure: Pag       Tost Temperature: ° F         Component Design Pressure: Pag       Tomperature: ° F         Remarks: None       Tomperature: ° 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 COMPLIANCE         Expiration Date: Not Applicable       Signed By       Aut.CLA       Aut.CL         Certificate Of Authorization No.: Not Applicable       Signed By       Aut.CLA       Aut.CL         Prepared By       Autor Applicable       Signed By       Aut.CLA       Autor Signed Program Load Engineer (PLE)         Date       G(318)       Date       G(318)       Autor Signed Program Load Engineer (PLE)         Date       G(318)       Date       and employed by       and state to the sets 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 in accordance with the requirements of the ASME Code, Section Xi.		\$				LAN No 2-156
ests Conducted: Hydrostatic Pressure: Pig       Nominal Operating Pressure. Other Nominal Concerting Pressure. Other Nominal Component Design Pressure: Pig       Test Temperature: Pig       Test Temperature: Pig         Remarks: None       Test Temperature: Pig       Test Temperature: Pig       Test Temperature: Pig         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         Expiration Date: Not Applicable       Expiration Not: Not Applicable       Signed By       Succerts         Expiration Date: Not Applicable       Signed By       Succerts       Suddip Singh Vincigram Load Engineer (PLE)         Date       G(3)(9)       Date       G(3)(9)       Signed By       Succerts         It the undersigned, holding a valid commission issued by the National Board of Boller and Pressure       Pressure       and and employed by         Is the undersigned, holding a valid commission issued by the National Board of Boller and Pressure       and state to the sets 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 in accordance with the r	- FORM	I NIS-2 OWNER'S REPC	ORT FOR REPAIR	S OR REPLA	CEMENTS (Back	()
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         Certificato of Authorization Not. Not Applicable         Expiration Date: Not Applicable         Expiration Date: Not Applicable         Prepared By	Τε	est Pressure: Psig		Test Temper	ature:°F	her 🗙 Non
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       Jule Such         Kuklip Singh - Program Lead Engineer (PLE)         Note       Signed By         Kuklip Singh - Program Lead Engineer (PLE)         Date       6[3]9.8         Date         CERTIFICATE OF INSERVICE INSPECTION         1, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure         Vessel Inspectors and the State of and employed by		, 0	• •	•	-	
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	Temarks: None			•		11
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						•
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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						•
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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		CERTI	FICATE OF COM	PLIANCE		
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 <u>Hart And</u> State Signed By <u>Hart And</u> State, and Endorsements Nuldip Singh - Program Lead Engineer (PLE) Date <u>GISTS</u> Date <u>GISTS</u> 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 <u>and</u> and employed by <u>have inspected the components</u> and employed by <u>and</u> and employed by <u>and</u> and employed by <u>and</u> and employed by <u>Aster</u> Newsel Inspectors and the State of <u>and</u> and employed by <u>Aster</u> <i>Aster</i> 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 on this 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. National Board, State, and Endorsements						· »
Type Code Symbol Stamp: Not Applicable         Certificate Of Authorization No.: Not Applicable         Expiration Date: Not Applicable         Prepared By				are correct ar	id this replacement (	conform <del>s</del>
Certificate Of Authorization No.: Not Applicable         Expiration Date: Not Applicable         Prepared By			•		•	<i>,</i> •
Prepared By       Heiters       Signed By       Heiters       Signed By			ble		41	1 4 a 4
Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh ⁹ Program Lead Engineer (PLE)         Date       6398       Date       6398         CERTIFICATE OF INSERVICE INSPECTION       Is the undersigned, holding a valid commission issued by the National Board of Boller and Pressure         Vessel Inspectors and the State of       and engloyed by         described in this Owner's Report during the period       to       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 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.         Not Required - Replacement 1* NPS And Smaller       Commissions         Inspector's Signature       National Board, State, and Endorsements	Expiration Date: N	Vot Applicable				
Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh ⁹ Program Lead Engineer (PLE)         Date       6398       Date       6398         CERTIFICATE OF INSERVICE INSPECTION       Is the undersigned, holding a valid commission issued by the National Board of Boller and Pressure         Vessel Inspectors and the State of       and engloyed by         described in this Owner's Report during the period       to       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.         Not Required - Replacement 1" NPS And Smaller       Commissions         Inspector's Signature       National Board, State, and Endorsements	Draw award Die	Xalan 00	h cland	B. Martai	in Cro	L
Date       6398       Date       6398         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 and employed by         described in this Owner's Report during the period to 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 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.         Not Required - Replacement 1* NPS And Smaller Commissions         Inspector's Signature	Ки	dip Singh - Program Load Engir	eor (PLE)	Kuldip Sin	h Program Load Eng	gineer (PLE)
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure         Vessel Inspectors and the State of and employed by         described in this Owner's Report during the period to 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.         Not Required - Replacement 1*NPS And Smaller Commissions				-	GRIZIAS	•
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State of and employed by						
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State of and employed by						
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure         Vessel Inspectors and the State of and employed by		,				
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure         Vessel Inspectors and the State of and employed by						
Vessel Inspectors and the State of and employed by		CERTIFICAT	TE OF INSERVICI	E INSPECTIO	v	ž
Vessel Inspectors and the State of and employed by						·
have inspected the components described in this Owner's Report during the period to 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. <u>Not Required - Replacement 1" NPS And Smaller</u> <u>Commissions</u> Inspector's Signature <u>National Board, State, and Endorsements</u>					ara of Boller and	Pressure
described in this Owner's Report during the period to 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.         Not Required - Replacement 1* NPS And Smaller Commissions	•			have	inspected the co	mponents
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.	described in this	Owner's Report during t	he period	to		_and
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. <u>Not Required - Replacement 1* NPS And Smaller</u> Inspector's Signature <u>National Board, State, and Endorsements</u>						
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. <u>Not Required - Replacement 1* NPS And Smaller</u> <u>Inspector's Signature</u> <u>National Board, State, and Endorsements</u>			ner's Report in ad	cordance with	i the requirement	is of the
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.         Not Required - Replacement 1" NPS And Smaller       Commissions         Inspector's Signature       National Board, State, and Endorsements	AJME LODE. 380		pector nor his emi	olover makes a	anv warrantv. exc	ressed 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.         Not Required - Replacement 1" NPS And Smaller       Commissions         Inspector's Signature       National Board, State, and Endorsements			,		d in this Owner's	Renort
<u>Not Required - Replacement 1" NPS And Smaller</u> Inspector's Signature National Board, State, and Endorsements	By signing this c	ing the examinations and	d corrective meas	ures aescribe		перопь
Inspector's Signature National Board, State, and Endorsements	By signing this co implied, concerni Furthermore, nei	ther the Inspector nor hi	s employer shall b	be liable in any	r manner for any j	personal
Inspector's Signature National Board, State, and Endorsements	By signing this control implied, concerning Furthermore, neithermore,	ther the Inspector nor hi	s employer shall b	be liable in any	r manner for any j	personal
	By signing this co implied, concerni Furthermore, nei	ther the Inspector nor hi	s employer shall b	be liable in any	r manner for any j	personal
Date	By signing this co implied, concerning Furthermore, neing injury or property <u>Not Required - Replace</u>	ther the Inspector nor hi y damage or a loss of an cement 1" NPS And Smaller	s employer shall £ y kind arising fron	oe liable in any n or connected	r manner for any   d with this inspec	personal tion.
	By signing this concerning implied, concerning Furthermore, neith injury or property <u>Not Required - Replac</u> Inspe	ther the Inspector nor hi y damage or a loss of any accement <u>1" NPS And Smaller</u> Actor's Signature	s employer shall £ y kind arising fron	oe liable in any n or connected	r manner for any   d with this inspec	personal tion.

# SUPPLY SYSTEM

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

- 1. Owner: Washington Public Power Supply System (WPPSS)
- Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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: Control Air System (CAS)
- 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
CAS(5)+1	WPPSS .	CAS(5)-1-P1	N/A	N/A	1984	Replacement	Yes, Code Class 3

7. Description Of Work Performed: Replaced existing tubing material for CAS supply to valve MS-V-28A. The replacement work was performed as follows:

- 1) Removed existing tubing material such as tubing, tee, connector.
- 2) Installed new tubing material such as tubing, tee, connector.
- 3) Reinstalled existing valve CAS-V-326A, Serial No PB 1244.

Date: 06/08/98 Sheet: 1 of 1 Unit: WNP-2

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PLAN No 2-1564



		ASILINGTON PUBLIC PORE		PLAN No
		SUPPLY SYSTEM		
FO	RM NIS-2 OWNER'S REPOR	T FOR REPAIRS	OR REPLACEMEN	TS (Back)
Tests Conducte	d: Hydrostatic Deneumai Test Pressure: Psig		Operating Pressure est Temperature: ° F emperature: ° F	Other X
-	Component Design Pressur	e: Psig 10	smperature: - r	
. Remarks: None				 y
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				*. * * %
r	• 		<u></u>	
	CERTIFI	CATE OF COMPLI	ANCE	•
	t the statements made in this	Owner's Report are	e correct and this re	placement conform
	the ASME Code, Section XI. mbol Stamp: Not Applicable			
Certificate Of	Authorization No.: Not Applicable	•		
Expiration Dat			1.0,0	79,
Prepared By _	Kuldip Singh - Program Load Engine	Signed By or (PLE)	Kuldip Singh - Progra	<u>خدید ک</u> Im Load Engineer (PL
Date	6999	Date	61919	8
			-	
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	,	OF INSERVICE IN	•	
I, the undersig	ned, holding a valid commiss tors and the State of	and emp	loved bv	
•	his Owner's Report during the		have inspecte	ed the componen
state to the be	st of my knowledge and belle	f, the Owner has p	erformed examination	ons and taken 🐪
ASME Code, S	asures described in this Own Section XI.	er's Report in acco.	rdance with the req	uirements of the
By signing this	s certificate neither the inspe eming the examinations and c	ctor nor his employ	er makes any warra	anty, expressed
Furthermore, r	neither the inspector nor his e	employer shall be li	iable in any manner	r for any persona
Injury or prope	erty damage or a loss of any l	kind arising from o	^r connected with thi	is inspection.
Not Required - Re	placement 1" NPS And Smaller	Commissions	:	*
f In:	spector's Signature		National Board, Stat	te, and Endorsements
Date		<u> </u>		ډ

	PLAN NO 2-1565
SUPPLY SYSTEM	• • • • • • • • • • • • • • • • • • •
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEME As Required By The Provisions Of The ASME Code Section X	NTS 1
<ol> <li>Owner: Washington Public Power Supply System (WPPSS)</li> <li>Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352</li> </ol>	Date: 06/08/98 Sheet: 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	Unit: WNP-2
3. (a) Work Performed By: Washington Public Power Supply System (WPPSS) (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: Control Air System (CAS)
- 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
CAS(5)-1	WPPSS	CAS(5)-1-P1	N/A	N/A	1984	Replacement	Yes, Code Class 3
						• • •	
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7. Description Of. Work Performed: Replaced existing tubing material for CAS supply to valve MS-V-28B. The replacement work was performed as follows:

- 1) Removed existing tubing material such as tubing, tee, connector.
- 2) Installed new tubing material such as tubing, tee, connector.
- 3) Reinstalled existing valve CAS-V-326B, Serial No PB 1246.

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r		SUPPLY SYSTE		PLAN No
FC	)RM NIS-2 OWNER'S F	REPORT FOR REPAIRS	OR REPLACE	MENTS (Back)
Tests Conducte	ed: Hydrostatic Pr Test Pressure: Psig Component Design P		Operating Press Test Temperatur Temperature: ° F	e:°F.
Remarks: None			4	
			ч	x.
	,			
			<b></b>	
	· CE	ERTIFICATE OF COMPL	JANCE	
to the rules of Type Code Sy Certificate Of Expiration Dat	f the ASME Code, Section f the ASME Code, Section f the Association for the association f the Association for the association of the association f the ASME Code, Section of the association of the ass	le pplicable		
Prepared By _		Engineer (PLE)	Y Kuldip Singh - I	b Supb Program Load Engineer (PLE
Date	6999	Date	6	19198
	CERTIF	ICATE OF INSERVICE I	INSPECTION	
I. the undersic	ined. holding a valid co	mmission issued by the	National Board	of Boller and Pressure
Vessel Inspec	tors and the State of	and em	ploved by	pected the component
described in ti	his Owner's Report dur	ing the period	to	and
state to the be corrective me	est of my knowledge and asures described in thi	d bellef, the Owner has p s Owner's Report in acco	performed exam ordance with the	inations and taken e requirements of the
ASME Code, S By signing thi implied, conce	Section XI. is certificate neither the erning the examination:	Inspector nor his emplo s and corrective measure	oyer makes any res described in	warranty, expressed o this Owner's Report.
		or his employer shall be . of any kind arising from c		
Not Required - R	enlacement 1" NPS And Small	ler Commission	15	
In	nspector's Signature		National Board	J, State, and Endorsements
Date				
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## PLAN No 2-1566



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (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: Control Air System (CAS)
- 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	Manufactur <b>er's</b> Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
CAS(5)-1	WPPSS	CAS(5)-1-P1	N/A	N/A	1984	Replacement	Yes, Code Class 3
				×			

7. Description Of Work Performed: Replaced existing tubing material for CAS supply to valve MS-V-28C. The replacement work was performed as follows:

- 1) Removed existing tubing material such as tubing, tee, connector.
- 2) Installed new tubing material such as tubing, tee, connector.
- 3) Reinstalled existing valve CAS-V-326C, Serial No PB 1248.

Date: 06/08/98 Sheet: 1 of 1 Unit: WNP-2

SUPPLY SYSTEM  FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)  Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other     Test Pressure: Psig Test Temperature: ° F     Component Design Pressure: Psig Temperature: ° F  Remarks: None  CERTIFICATE OF COMPLIANCE  We certify that the statements made in this Owner's Report are correct and this replacement co     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	er 🔀 Na
Tests Conducted: Hydrostatic       Pneumatic       Nominal Operating Pressure       Other Test Pressure: Psig         Test Pressure: Psig       Test Temperature: ° F         Component Design Pressure: Psig       Temperature: ° F         Remarks: None         CERTIFICATE OF COMPLIANCE         We certify that the statements made in this Owner's Report are correct and this replacement co to the rules of the ASME Code, Section XI.         Type Code Symbol Stamp: Not Applicable         Certificate Of Authorization No.: Not Applicable	· .
Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Remarks: None CERTIFICATE OF COMPLIANCE We certify that the statements made in this Owner's Report are correct and this replacement co to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	· .
CERTIFICATE OF COMPLIANCE We certify that the statements made in this Owner's Report are correct and this replacement co to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	nforme
We certify that the statements made in this Owner's Report are correct and this replacement co to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	
We certify that the statements made in this Owner's Report are correct and this replacement co to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	
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We certify that the statements made in this Owner's Report are correct and this replacement co to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	nforme
We certify that the statements made in this Owner's Report are correct and this replacement co to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	nforme
to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate Of Authorization No.: Not Applicable	nforme
Prepared By <u>Hurdifp</u> <u>Buic 6</u> Kuldip Singh - Program Lead Engineer (PLE) Signed By <u>Hurdifp</u> <u>Buic 5</u> Kuldip Singh - Program Lead Engine Date <u>6 9 98</u> Date <u>6 9 98</u>	oor (PLE)
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pl Vessel inspectors and the State of and employed by	
described in this Owner's Report during the period have inspected the comp state to the best of my knowledge and belief, the Owner has performed examinations and tak corrective measures described in this Owner's Report in accordance with the requirements ASME Code, Section XI.	ind ken
By signing this certificate neither the inspector nor his employer makes any warranty, expre Implied, concerning the examinations and corrective measures described in this Owner's Re Furthermore, neither the inspector nor his employer shall be liable in any manner for any per injury or property damage or a loss of any kind arising from or connected with this inspection	eport. rsonal
<u>Not Required - Replacement 1° NPS And Smaller</u> Inspector's Signature Commissions National Board, State, and Endors	ements
Date	

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## PLAN No 2-1567



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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352-
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (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: Control Air System (CAS)
- 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
CAS(5)-1	WPPSS	CAS(5)-1-P1	N/A	N/A	1984	Replacement	Yes, Code Class 3

7. Description Of Work Performed: Replaced existing tubing material for CAS supply to valve MS-V-28D. The replacement work was performed as follows:

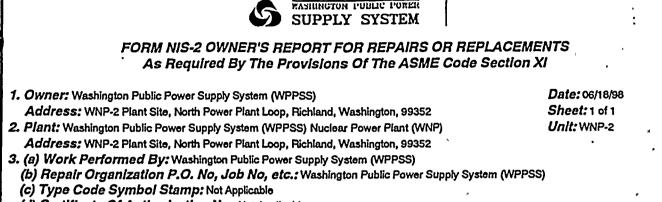
- 1) Removed existing tubing material such as tubing, tee, connector.
- 2) Installed new tubing material such as tubing, tee, connector.
- 3) Reinstalled existing valve CAS-V-326D, Serial No PB 1247.

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Date: 06/08/98 Sheet: 1 of 1 Unit: WNP-2

SUPPLY SYSTEM  FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)  Test Pressure Paig  Test Pressure Paig  Test Pressure Paig  Component Design Pressure: Paig  Test Pressure Paig  CERTIFICATE OF COMPLIANCE  We certify that the statements made in this Owner's Report are correct and this replacement conform to the rules of the ASME Code, Section XI. Type Code Symbol Stamp Not Applicable Certificate Of Authorization No: Not Applicable Symbol Stamp Not Applicable Replaced By Machine State of the ASME Code, Section XI. Type Code Symbol Stamp Not Applicable Certificate Of Authorization No: Not Applicable Certificate Of INSERVICE INSPECTION I, the undersigned, holding a valid commission Issued by the National Board of Boller and Pressur Vessel Inspectors and the State of		, <i>s</i> t				PLAN No 2
Tests Conducted: Hydrostatic       Pneumatic       Nominal Operating Pressure       Other       Image: Component Design Pressure: Psig       Test Temperature: ° F         Remarks: None       Temperature: ° F       Temperature: ° F         Remarks: None       CERTIFICATE OF COMPLIANCE         We certify that the statements made in this Owner's Report are correct and this replacement conform to the rules of the ASME Code, Section XI.         Type Code Symbol Stamp: Not Applicable       Expiration Date: Not Applicable         Expiration Date: Not Applicable       Signed By       Mudip Singh - Program Lead Engineer (PLE)         Nukley Singh - Program Lead Engineer (PLE)       Signed By       Mudip Singh - Program Lead Engineer (PLE)         Date       G(19(9))       Date       G(19(9))         I, the undersigned, holding a valid commission Issued by the National Board of Boller and Pressure Vessel Inspectors and the State of and employed by to state to the best of my Knowledge and bellef, the Owner's Report in accordance with the requirements of the ASME Code, Section XI.         By signing this certificate neither the Inspector nor his employer shall be liable in any manner for any personal inductions and 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 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.         Natenew				LY SYSTEM		
Test Pressure: Psig         Test Temperature: ° F         Component Dosign Pressure: Psig         Test Temperature: ° F         CentificAtte Of Mathematic Applicable         CentificAtte OF COMPLIANCE         We cols Symbol Stamp: Not Applicable         Centificate of Authorization No.: Not Applicable         Centificate of Authorization No.: Not Applicable         Centificate of Authorizatid Engineer (PLE)	FOR	M NIS-2 OWNE	R'S REPORT FOI	R REPAIRS OR RI	EPLACEMENT	S (Back)
CERTIFICATE OF COMPLIANCE         We certify that the statements made in this Owner's Report are correct and this replacement conform to the rules of the ASME Code, Section XI.         Type Code Symbol Stamp: Not Applicable         Certificate Of Authorization NO: Not Applicable         Exploration Date: Not Applicable         Prepared By         Kuidip Singh - Program Lead Englineer (PLE)         Not Applicable         Prepared By         Kuidip Singh - Program Lead Englineer (PLE)         Not Applicable         Date         CERTIFICATE OF INSERVICE INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressum Vessel Inspectors and the State of and employed by         Vessel Inspectors and the State of		Test Pressure: P		Test Te	mperature: ° F	Other X
CERTIFICATE OF COMPLIANCE         We certify that the statements made in this Owner's Report are correct and this replacement conform 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       Guide Singh - Program Lead Engineer (PLB)         Kuldip Singh - Program Lead Engineer (PLB)       Kuldip Singh - Program Lead Engineer (PLB)         Date       619188         Vessel Inspectors and the State of and employed by to and state to the basit 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 of implied, concerning the examinations and corrective measures described in this Owner's Report.         By cigning this certificate neither the inspector nor his employer makes any warranty, expressed of implied, concerning the examinations and corective measures described in this Insp			. <b></b>			·
We certify that the statements made in this Owner's Report are correct and this replacement conformation 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 - Program Lead Engineer (PLE)         Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh - Program Lead Engineer (PLE)         Date       6998         Date       6998         Date       6998         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       and employed by						•
We certify that the statements made in this Owner's Report are correct and this replacement conformation 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 - Program Lead Engineer (PLE)         Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh - Program Lead Engineer (PLE)         Date       6998         Date       6998         Date       6998         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       and employed by						
We certify that the statements made in this Owner's Report are correct and this replacement conformation 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 - Program Lead Engineer (PLE)         Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh - Program Lead Engineer (PLE)         Date       6998         Date       6998         Date       6998         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       and employed by						•
We certify that the statements made in this Owner's Report are correct and this replacement conformation 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 - Program Lead Engineer (PLE)         Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh - Program Lead Engineer (PLE)         Date       6998         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       and		•				
We certify that the statements made in this Owner's Report are correct and this replacement conformation 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       Kukdip Singh - Program Lead Engineer (PLE)         Kukdip Singh - Program Lead Engineer (PLE)       Kukdip Singh - Program Lead Engineer (PLE)         Date       6998         CERTIFICATE OF INSERVICE INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure have inspected the component and employed by	2	· · · · · · · · · · · · · · · · · · ·	CERTIFICATE			······································
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		h a atata				, ·
Certificate Of Authorization No.: Not Applicable         Expiration Date: Not Applicable         Prepared By       Image: Signed By         Kuldip Singh - Program Lead Engineer (PLE)         Nuldip Singh - Program Lead Engineer (PLE)         Date       6 9 9 9         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 and employed by         described in this Owner's Report during the period to and employed by 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 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.         Not Required - Replacement 1*NPS And Smaller Commissions	to the rules of t	ne ASME Code, S	Section XI.	r 5 мероп are corr	εστ απά τητς τορ	iacement contorms
Expiration Date: Not Applicable         Prepared By       Signed By       Signed By       Signed By       Signed Expiration         Date       69428       Date       6448         Date       69428       Date       6448         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 and employed by         described in this Owner's Report during the period       to and         described in this Owner's Report during the period       to 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 or or 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.         Not Required - Replacement 1*NPS And Smaller       Commissions         Inspector's Signature       National Board, State, and Endorsements						
Kuldip Singh - Program Lead Engineer (PLE)       Kuldip Singh - Program Lead Engineer (PLE)         Date       6992         Date       6992         Date       6992         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 and employed by         described in this Owner's Report during the period to 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.         Not Required - Replacement 1* NPS And Smaller Commissions						n n ^e e e e e
Date       619198       Date       619198         Date       619198       Date       619198         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	Prepared By	Kuldip	- Ruch		haip !	Singh
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 and employed by		uldip Singh - Program	<b>^</b>			
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State of and employed by	Date	<u> </u>	<u> </u>		<u> </u>	
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State of and employed by			<u>.</u>			· · ·
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State of and employed by						· · · · · · · · · · · · · · · · · · ·
Vessel Inspectors and the State of and employed by         described in this Owner's Report during the period to 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 of 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.         Not Required - Replacement 1* NPS And Smaller Commissions National Board, State, and Endorsements		CE	RTIFICATE OF IN	ISERVICE INSPEC	CTION	, •
	I, the undersign	ed, holding a val	id commission is	sued by the Nation	al Board of Bo	iler and Pressure
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 of 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. <u>Not Required - Replacement 1° NPS And Smaller</u> Inspector's Signature Commissions National Board, State, and Endorsements	Vessel Inspecto	rs and the State	of	and employed	by have inspected	the components
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 of 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. <u>Not Required - Replacement 1° NPS And Smaller</u> Inspector's Signature Commissions National Board, State, and Endorsements	• •	s Owner's Repor	t during the perio	d		
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed of 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.          Not Required - Replacement 1° NPS And Smaller       Commissions         Inspector's Signature       National Board, State, and Endorsements	described in thi		ya and haliaf the i	Owner has nerform		
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. <u>Not Required - Replacement 1° NPS And Smaller</u> Inspector's Signature Commissions National Board, State, and Endorsements	described in thi state to the bes corrective meas	ures described l		Owner has perforn		
Injury or property damage or a loss of any kind arising from or connected with this inspection.          Not Required - Replacement 1° NPS And Smaller       Commissions         Inspector's Signature       National Board, State, and Endorsements	described in thi state to the bes corrective meas ASME Code, Se	ures described l ction XI.	in this Owner's Re	Owner has perforn eport in accordanc	e with the requ	irements of the
Inspector's Signature National Board, State, and Endorsements	described in thi state to the bes corrective meas ASME Code, Se By signing this implied, concer	ures described l ction XI. certificate neithe ning the examina	In this Owner's Re er the Inspector ne ations and correct	<i>Owner has perform eport in accordanc</i> or his employer ma tive measures desc	e with the requ - akes any warra cribed in this C	irements of the nty, expressed or )wner's Report.
Inspector's Signature National Board, State, and Endorsements	described in thi state to the bes corrective meas ASME Code, Se By signing this implied, concer Furthermore, no	ures described i ction XI. certificate neithe ning the examina ither the inspect	in this Owner's Re er the Inspector ne ations and correct tor nor his employ	<i>Owner has perforn eport in accordanc or his employer ma tive measures des yer shall be liable i</i>	e with the requ akes any warra cribed in this C n any manner i	irements of the nty, expressed or )wner's Report. for any personal
, , ,	described in thi state to the bes corrective meas ASME Code, Se By signing this implied, concer Furthermore, no	ures described i ction XI. certificate neithe ning the examina ither the inspect	in this Owner's Re er the Inspector ne ations and correct tor nor his employ	<i>Owner has perforn eport in accordanc or his employer ma tive measures des yer shall be liable i</i>	e with the requ akes any warra cribed in this C n any manner i	irements of the nty, expressed or )wner's Report. for any personal
	described in thi state to the bes corrective meas ASME Code, Se By signing this implied, concer Furthermore, no injury or proper	ures described i ction XI. certificate neithe ning the examina- ither the inspect ty damage or a lo acement 1• NPS And	in this Owner's Re er the Inspector no ations and correct tor nor his employ oss of any kind an	Owner has perform eport in accordanc or his employer ma tive measures des yer shall be liable i dising from or conn Commissions	e with the requ akes any warra cribed in this C in any manner i bected with this	irements of the nty, expressed or wner's Report. for any personal inspection.
۲	described in thi state to the bes corrective meas ASME Code, Se By signing this implied, concer Furthermore, no injury or proper <u>Not Required - Rep</u> Insp	ures described i ction XI. certificate neithe ning the examina- ither the inspect ty damage or a lo acement 1• NPS And	in this Owner's Re er the Inspector no ations and correct tor nor his employ oss of any kind an	Owner has perform eport in accordanc or his employer ma tive measures des yer shall be liable i dising from or conn Commissions	e with the requ akes any warra cribed in this C in any manner i bected with this	irements of the nty, expressed or wner's Report. for any personal inspection.
· · · ·	described in thi state to the bes corrective meas ASME Code, Se By signing this implied, concer Furthermore, no injury or proper <u>Not Required - Rep</u> Insp	ures described i ction XI. certificate neithe ning the examina- ither the inspect ty damage or a lo acement 1• NPS And	in this Owner's Re er the Inspector no ations and correct tor nor his employ oss of any kind an	Owner has perform eport in accordanc or his employer ma tive measures des yer shall be liable i dising from or conn Commissions	e with the requ akes any warra cribed in this C in any manner i bected with this	irements of the nty, expressed or wner's Report. for any personal inspection.
	described in thi state to the bes corrective meas ASME Code, Se By signing this implied, concer Furthermore, no injury or proper <u>Not Required - Rep</u> Insp	ures described i ction XI. certificate neithe ning the examina- ither the inspect ty damage or a lo acement 1• NPS And	in this Owner's Re er the Inspector no ations and correct tor nor his employ oss of any kind an	Owner has perform eport in accordanc or his employer ma tive measures des yer shall be liable i dising from or conn Commissions	e with the requ akes any warra cribed in this C in any manner i bected with this	irements of the nty, expressed or wner's Report. for any personal inspection.

## PLAN No 2-1569



- (d) Certificate Of Authorization No.: Not Applicable
- (e) Expiration Date: Not Applicable
- 4. Identification Of System: Containment (Penetration X-58)
- 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: 1992 Edition with 1992 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 Bulit	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
Containment (Penetration X-58)	РДМ	12764	790	N/A	1976	Repaired	Yes, Code Class MC

7. Description Of Work Performed: Removed temporary attachment (nut) welded between the sleeve and the pipe for Containment Penetration X-58. The repair work was performed as follows:

- 1) Cut and removed the nut to pipe weld and nut to the sleeve weld.
- 2) Uniformly blended the areas into the surrounding base metal surfaces.

Performed liquid penetrant (PT) examination on the final prepped surfaces. Liquid penetrant (PT) examination results acceptable.
 Performed ultrasonic (UT) examination to measure the remaining wall thickness of the prepped surfaces. Ultrasonic (UT) examination

4) Performed ultrasonic (U1) examination to measure the remaining wall thickness of the prepped surfaces. Ultrasonic (U1) examination results acceptable.

5) Performed VT-3 visual examination on the final prepped surfaces to satisfy ISI (PSI) requirements. VT-3 visual examination results acceptable.

			<u>,</u>		PLANN	No 2-156
		ON PUBLIC PONER LY SYSTEM		×		2
FORM NIS-2 OWNER	'S REPORT FOR	R REPAIRS O	R REPLACE	MENTS (B	ack)	
Tests Conducted: Hydrostatic Test Pressure: Psig	Pneumatic	] Nominal Op	erating Pres st Temperatu	sure	Other	· ]
Component Desig			mperature:°			-
<b>Remarks:</b> * Pressure Test - The repair wor air, therefore the Title 10, Part 50, Appendix J kage test as permitted by IWE-5000 of ASME	J, Paragraph IV.A leak	age test on the m	inor repair has b	Plan No 2-1569 een deferred u	) is consider Intil the next	ed as mino scheduled
		1				
				•		I.
					4	
	CERTIFICATE	OF COMPLIA	NCE	•	·	
We certify that the statements ma	de in this Owner	's Report are	correct and t	his repair <i>co</i>	nforms to	o the
rules of the ASME Code, Section 2	X1.			`.	_	•
Type Code Symbol Stamp: Not Appl Certificate Of Authorization No.: N			* '			'
Expiration Date: Not Applicable	or Applicable					
1.01	0° L		Auro	10 8	. h	•
Ruldip Singh - Program L	and Engineer (PLE)	_ Signed By _	Kuldip Singh -	Program Lead	Engineer (F	PLE
110/00	.ouu 2.1.g.11001 (1 244	Date	• •	18798		Í
Date6[15[18	·····	_ Date		<u>, , , , , , , , , , , , , , , , , , , </u>	·	
			<u> </u>			
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CER	TIFICATE OF IN	SERVICE INS	SPECTION	•		
		and has the M	Henel Beer	l of Bollor o	nd Proce	
<i>I, the undersigned, holding a valid Vessel Inspectors and the State of</i>	<i>f</i> Washington <b>and</b>	emploved by	Arkwright Mut	ual Insurance	e Compan	v
of Waltham, Massachusetts have ins	pected the comp	oonents desci	ibed in this (	Owner's Rej	oort durin	ig the
period $\frac{\sqrt{2}}{\sqrt{2}}$ to $\frac{\sqrt{2}}{\sqrt{2}}$	<u>77.70                                  </u>	a state to the	pest of my ki	nowieuge a	na penei,	uie
Owner has performed examination	ns and taken con sta of the ASME	rective measu Codo Soction	ires describe • Yi	ea in this U	wner's He	port
in accordance with the requirement By signing this certificate neither	nts of the ASME the Inspector no	r his employe	r makes anv	warrantv. e	xpressed	for
Implied, concerning the examinati	ions and correctl	ive measures	described in	this Owner	r's Report	
Furthermore, neither the inspecto	r nor his employ	er shall be lla	ble in any ma	anner for ar	ıy person	al
injury or property damage or a los	s of any kind arl	sing trom or i	connectea W	an ans insp	ecuon.	*
H IM. Dost	<u> </u>	• •	741 <i>[1.11]</i>	nie .	IT (V)	21
Inspector's Signature	C	ommissions _		d, State, and E	Endorsemen	ts
	• .•		• •	•	<b>1</b> ·	
Date 1/18/19.			<b>~</b> •			L
Date 1/18/19	<u></u>		·			



# 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System (WPPSS)
  - (c) Type Code Symbol Stamp: Not Applicable
  - (d) Certificate Of Authorization No.: Not Applicable
  - (e) Expiration Date: Not Applicable
- 4. Identification Of System: Reactor Core Isolation Cooling (RCIC) System
- 5. (a) Applicable Construction Code: ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition Of ASME Section XI Utilized For Repairs Or Replacements: 1989 Edition with no Addenda, Code Case: 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-400 Snubber	Pacific	4012	N/A	PSA-1/2	N/A	Replaced	No, Code Class NF(2)
RHR-400 Snubber	Pacific	369	N/A	PSA-1/2	N/A	Replacement	No, Code Class NF(1)

7. Description Of Work Performed: Replaced existing snubber for support RHR-400. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 4012.
- 2) Installed replacement snubber with Serial No 369.
- 3) Performed operability test on the replacement snubber. Operability test acceptable.

4) Performed limited (pin to pin) VT-3 visual examination on the installed replacement snubber. VT-3 visual examination results acceptable.

#### NOTES-

1) The existing snubber Serial No 4012, ASME Section III, Code Class NF(2) or better.

2) The replacement snubber Serial No 369, ASME Section III, Code Class NF(1) for ASME Section III, Code Class NF(2) application. This snubber was previously removed from support FPC-228.

3) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 369 for support RHR-400 was installed Is Reactor Core Isolation Cooling (RCIC) piping system RCIC(2)-1-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.

Date: 05/26/98 Sheet: 1 of 1 Unit: WNP-2

	WOT NO HMH 10 SUPPLY SYSTEM
	FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
8 Test	es Conducted: Hydrostatic Preumatic Nominal Operating Pressure Other X Non Test Pressure: Psig Component Design Pressure: Psig Temperature: ° F
9. Ren	narks: None
	CERTIFICATE OF COMPLIANCE
to Ty Ce	e certify that the statements made in this Owner's Report are correct and this replacement conforms the rules of the ASME Code, Section XI. pe Code Symbol Stamp: Not Applicable rtificate Of Authorization No.: Not Applicable piration Date: Not Applicable
Pr	epared By Julan Signed By Julan Signed By Kuldip Singh - Program Lead Engineer (PLE) Kuldip Singh - Program Lead Engineer (PLE)
	Kuldip Singh - Program Lead Engineer (PLE)     Kuldip Singh - Program Lead Engineer (PLE)
Da	te6 3 98Date6 3 98
	-
	CERTIFICATE OF INSERVICE INSPECTION
Ve of V pe	the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure seel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company Waltham, Massachusetts have inspected the components described in this Owner's Report during the riod <u>2/20/95</u> to <u>0/17</u> and state to the best of my knowledge and belief, the wher has performed examinations and taken corrective measures described in this Owner's Report accordance with the requirements of the ASME Code, Section XI.
By	r signing this certificate neither the inspector nor his employer makes any warranty, expressed or
Fu	plied, concerning the examinations and corrective measures described in this Owner's Report. In thermore, neither the inspector nor his employer shall be liable in any manner for any personal Tury or property damage or a loss of any kind arising from or connected with this inspection.
	1. 11. London Commissions 7486 W/7486 WIS & IS
1-	Inspector's Signature Commissions National Board, State, and Endorsements
Da	ite <u> </u>
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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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 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
RHR-442 Snubber	Pacific	2088 ·	N/A	PSA-1/2	N/A	Replaced	No, Code Class NF(2)
RHR-442 Snubber	Pacific	4005	N/A	PSA-1/2	N/A	Replacement	No, Code Class NF(1)

7. Description Of Work Performed: Replaced existing snubber for support RHR-442. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 2088.
- 2) Installed replacement snubber with Serial No 4005.
- 3) Performed operability test on the replacement snubber. Operability test acceptable.

4) Performed limited (pin to pin) VT-3 visual examination on the installed replacement snubber. VT-3 visual examination results acceptable.

## NOTES-

1) The existing snubber Serial No 2088, ASME Section III, Code Class NF(2) or better.

2) The replacement snubber Serial No 4005, ASME Section III, Code Class NF(1) for ASME Section III, Code Class NF(2) application. This snubber was previously removed from support MS-2619-46.

3) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 4055 for support RHR-442 was installed Is Residual Heat Removal (RHR) piping system RHR(1)-2B-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.



			WOT No HM
	S	SUPPLY SYSTEN	
	FORM NIS-2 OWNER'S REP	ORT FOR REPAIRS (	DR REPLACEMENTS (Back)
6 Tests Condi	icted: Hydrostatic Pneun Test Pressure: Psig Component Design Press	Te	perating Pressure Dother X est Temperature: ° F emperature: ° F
9. Remarks: N	ne		
			<i>·</i> ,
			•
	CERTI	FICATE OF COMPLI	ANCE
We certify	" that the statements made in th	is Owner's Report are	correct and this replacement conforms
to the rules	s of the ASME Code, Section X Symbol Stamp: Not Applicable Of Authorization No.: Not Applica	7.	,
	Date: Not Applicable		
Prepared E	By Julap Such Kuldip Singh - Program Load Engin	Signed By	Kuldip Singh - Program Lead Engineer (PLE)
Date		Date	63198
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• <u>····</u>			<del></del>
	CERTIFICAT	TE OF INSERVICE IN	SPECTION
L the under			lational Board of Boller and Pressure
Vessel Insp	pectors and the State of Washin	gton and employed by	Arkwright Mutual Insurance Company
period 7	<u> 20/98 to 6/8/98</u>	and state to the	ribed in this Owner's Report during the best of my knowledge and belief, the
	performed examihations and t nce with the requirements of th		ures described in this Owner's Repor n XI
By signing	this certificate neither the insp	pector nor his employ	er makes any warranty, expressed or
			described in this Owner's Report.
			able in any manner for any personal connected with this inspection.
	n The	- Commissions	741 / 1 / 741 / n. ISO IS
1			11011-11110 10-10 -1
<u></u>	Inspector's Signature		National Board, State, and Endorsements
<u></u>	Inspector's Signature		

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Date: 05/26/98

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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (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' <b>s</b> Serial No	National Board No	Other I.D.	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes Or No) Code Class
MS-91 Snubber-E	Pacific	2583	N/A	PSA-3	N/A	Replaced	No, Code Class NF(1)
MS-91 Snubber-E	Pacific	294	N/A	PSA-3	N/A	Replacement	No, Code Class NF(1)
MS-91 Snubber-W	Pacific	2793	N/A	PSA-3	N/A	Replaced	No, Code Class NF(1)
MS-91 Snubber-W	Pacific	3927	N/A	PSA-3	N/A	Replacement	No, Code Class NF(1)

7. Description Of Work Performed: Replaced existing snubbers for supports MS-91-E and MS-91-W. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 2583 from support MS-91-E.
- 2) Installed replacement snubber with Serial No 294 for support MS-91-E.
- 3) Removed existing snubber with Serial No 2793 from support MS-91-W.
- 4) Installed replacement snubber with Serial No 3927 for support MS-91-W.
- 5) Performed operability test on both the replacement snubbers. Operability test acceptable.

6) Performed limited (pin to pin) VT-3 visual examination on both the installed replacement snubbers. VT-3 visual examination results acceptable.

#### NOTES -

The replacement snubber Serial No 294, ASME Section III, Code Class NF(1) was previously removed from support MS-57.
 The replacement snubber Serial No 3927, ASME Section III, Code Class NF(1) was previously removed from support RHR-362.
 The existing ASME Code Stamped piping system in which the replacement snubber Serial No's 294 and 3927 for supports MS-91-E and MS-91-W were installed is Main Steam (MS) piping system MS(1)-4A-P2. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

4) E - East

5) W - West

				WOT No HMI
	S	SUPPLY SYSTEM		•
FC	ORM NIS-2 OWNER'S REPO	RT FOR REPAIRS (	OR REPLACEMEN	TS (Back)
Test <del>s</del> Conducte	ed: Hydrostatic 🛄 Pneum Test Pressure: Psig Component Design Pressu	· Te	)perating Pressure est Temperature: ° F emperature: ° F	
. Remarks: None			•	•••
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×			• •	
		*		
	CEDTIE	ICATE OF COMPLI		
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to the rules of	at the statements made in this f the ASME Code, Section XI.		correct and this log	vacement contorms
Certificate Of	/mbol Stamp: Not Applicable Authorization No.: Not Applicab	ło		•
Expiration Da	te: Not Applicable		:	
Prepared By_	Kuldip Singh - Program Load Engine			Mad Engineer (PLE)
Date	613198	Date	6131	<u>98</u>
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Vessel Inspect of Waltham, Ma period Owner has pe in accordance By signing thi Implied, conc Furthermore,	gned, holding a valid commis ctors and the State of Washing assachusetts have inspected to to <u>to</u> to <u>to</u> to <u>to</u> to <u>to</u> to <u>to</u> to	ton and employed by he components desc and state to the aken corrective meas e ASME Code, Section ector nor his employ corrective measures employer shall be line	y Arkwright Mutual Ins cribed in this Owner be best of my knowle sures described in t on XI. yer makes any warra s described in this ( able in any manner	urance Company 's Report during th dge and belief, the his Owner's Report nty, expressed or Dwner's Report. for any personal
1-11	1. Tell	Commissions		UNISBIC
110	nspoctor's Signature	,	National Board, State	e, and Endorsements
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Date <u>() / / /</u>			•	

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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (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
MS-114 Snubber-N	Pacific	275	N/A	PSA-10	N/A	Replaced	No, Code Class NF(1)
MS-114 Snubber-N	Pacific	313	N/A	PSA-10	N/A	Replacement .	No, Code Class NF(1)

7. Description Of Work Performed: Replaced existing snubber for support MS-114-N. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 275.
- 2) Installed replacement snubber with Serial No 313.
- 3) Performed operability test on the replacement snubber. Operability test acceptable.

4) Performed limited (pin to pin) VT-3 visual examination on the installed replacement snubber. VT-3 visual examination results acceptable.

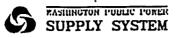
#### NOTES -

1) The replacement snubber Serial No 313, ASME Section III, Code Class NF(1) was previously removed from support MSRV-3C-5. 2) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 313 for support MS-114-N was installed is Main Steam (MS) piping system MS(1)-4A-P2. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

3) N - North

Date: 05/26/98 •Sheet: 1 of 1 Unit: WNP-2

	WOT NO HA
F	ORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
8 Tests Conduc	ed: Hydrostatic Pneumatic Nominal Operating Pressure Other X Test Pressure: Psig Test Temperature: ° F Component Design Pressure: Psig Temperature: ° F
<b>8. Remarks:</b> Non	
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	· CERTIFICATE OF COMPLIANCE
to the rules of Type Code S Certificate Of	at the statements made in this Owner's Report are correct and this replacement conforms f the ASME Code, Section XI. ymbol Stamp: Not Applicable f Authorization No.: Not Applicable ite: Not Applicable Signed By Hubby Euch Kuldip Singh - Program Lead Engineer (PLE) 6 3 9 8 Date 6 3 98
	CERTIFICATE OF INSERVICE INSPECTION
Vessei Inspec of Waltham, M period Owner has pe in accordanc By signing th implied, cond Furthermore,	gned, holding a valid commission issued by the National Board of Boller and Pressure ctors and the State of Washington and employed by Arkwight Mutual Insurance Company assachusetts have inspected the components described in this Owner's Report during to and state to the best of my knowledge and belief, the provide examinations and taken corrective measures described in this Owner's Repor- e with the requirements of the ASME Code, Section XI. Is certificate neither the inspector nor his employer makes any warranty, expressed of erning the examinations and corrective measures described in this Owner's Report. neither the inspector nor his employer shall be liable in any manner for any personal perty damage or a loss of any kind arising from or connected with this inspection.
 Date	Commissions <u>1481 W/TUSC WITS BIT</u> nspector's Signature National Board, State, and Endorsements NIS



# 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (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 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
MSRV-1A-3	BPC	N/A	N/A	N/A	N/A	Replacement	No, Code Class NF(3)

7. Description Of Work Performed: Replaced existing pin for support MSRV-1A-3. The replacement work was performed as follows: 1) Removed existing pin.

2) Installed replacement pin.

#### NOTES-

1) The existing ASME Code Stamped piping system in which the replacement pin for support MSRV-1A-3 was installed is Main Steam (MS) piping system MS(18)-2-1-P1. This piping system is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.



Date: 05/26/98 Sheet: 1 of 1 Unit: WNP-2

	WOT NO HMI	H 101
E	ORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)	
		None
	Component Design Pressure: Psig Temperature: ° F	
Remarks: None	3	
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	CERTIFICATE OF COMPLIANCE	
	at the statements made in this <b>Owner's</b> Report are correct and this replacement conforms of the ASME Code, Section XI.	
Type Code Sy	ymbol Stamp: Not Applicable	
	f Authorization No.: Not Applicable ate: Not Applicable	
Prepared By	Kuland Singh Stand By Kulaup Sigh	
	Kuldip Singh - Program Lead Engineer (PLE) Signed By Kuldip Singh - Program Lead Engineer (PLE)	-
Date	6]3[98Date6[3[98	-
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7		7
•	CERTIFICATE OF INSERVICE INSPECTION	
	gned, holding a valid commission issued by the National Board of Boiler and Pressure ctors and the State of Washington and employed by Arkwright Mutual Insurance Company	
	assachusetts have inspected the components described in this Owner's Report during th	
Owner has pe	erformed examinations and taken corrective measures described in this Owner's Report	
	e with the requirements of the ASME Code, Section XI. Is certificate neither the inspector nor his employer makes any warranty, expressed or	
Implied, conce	erning the examinations and corrective measures described in this Owner's Report.	
	neither the inspector nor his employer shall be liable in any manner for any personal perty damage or a loss of any kind arising from or connected with this inspection.	
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Date	198	

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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (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 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
MSRV-4B-3 Snubber	Pacific	11863	N/A	PSA-10	N/A	Replaced	No, Code Class NF(3)
MSRV-4B-3 Snubber	Pacific	9932	N/A	PSA-10	N/A	Replacement	No, Codo Class NF(1)

7. Description Of Work Performed: Replaced existing snubber for support MSRV-4B-3. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 11863.
- 2) Installed replacement snubber with Serial No 9932.
- 3) Performed operability test on the replacement snubber. Operability test acceptable.

4) Performed limited (pin to pin) VT-3 visual examination on the installed replacement snubber. VT-3 visual examination results acceptable.

#### NOTES -

1) The existing snubber Serial No 4012, ASME Section III, Code Class NF(3) or better.

2) The replacement snubber Serial No 9932, ASME Section III, Code Class NF(1) for ASME Section III, Code Class NF(3) application. This snubber was previously removed from support MSRV-4C-3.

3) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 9932 for support MSRV-4B-3 was installed is Main Steam (RCIC) piping system MS(18)-2-13-P1. This piping system is certified to comply with ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda requirements.

Date: 05/26/98 Sheet: 1 of 1 Unit: WNP-2

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FO	RM NIS-2 OWNER	'S REPORT FC	OR REPAIRS O	R REPLACEME	NTS (Back)	•
<b>fests C</b> onducte	d: Hydrostatic Test Pressure: Ps Component Desig	4	Te	perating Pressur st Temperature: ° mperature: ° F		X None
Remarks: None	•					
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		CERTIFICATI	E OF COMPLIA	NCE		
to the rules of Type Code Syr Certificate Of A Expiration Date	M. O.	e <i>ction XI.</i> Nicable Not Applicable		,		Ь <u> </u>
Date	Claip Singn - Program	Lead Engineer (PLC	-) Date	63		ir (PLC)
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Vessel Inspect of Waltham, Mas period Owner has per in accordance By signing this implied, conce. Furthermore, n injury or prope	CER ned, holding a vall ors and the State of seachusetts have in formed examination with the requirement certificate neither rning the examination rty damage or a lo pector's Signature	of Washington an spected the com- ons and taken co onts of the ASM the inspector r tions and correct or nor his emplo ss of any kind a	ssued by the Na of employed by mponents desca and state to the corrective measu E Code, Section for his employed ctive measures byer shall be lia	ational Board of I Arkwright Mutual I ribed in this Own best of my know ures described in n XI. er makes any war described in this ble in any manne	nsurance Comp er's Report du ledge and bell this Owner's rranty, express owner's Rep er for any pers his inspection	any pring the lef, the Report sed or ort. conal

## WOT No HMH 101 MASHINGTON PUBLIC POWER SUPPLY SYSTEM FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI Date: 05/26/98 1. Owner: Washington Public Power Supply System (WPPSS) Sheet: 1 of 1 Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 Unit: WNP-2 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS) (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 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
RWCU-1C-3 Snubber-E RWCU-1C-3 Snubber-E	Pacific Pacific	3946 284	N/A N/A	PSA-3 PSA-3	N/A N/A	Replace Replacement	No, Code Class NF(1) No, Code Class NF(1)

7. Description Of Work Performed: Replaced existing snubber for support RWCU-1C-3-E. The replacement work was performed as , follows:

- 1) Removed existing snubber with Serial No 3946.
- 2) Installed replacement snubber with Serial No 284E.
- 3) Performed operability test on the replacement snubber. Operability test acceptable.

4) Performed limited (pin to pin) VT-3 visual examination on the installed replacement snubbers. VT-3 visual examination results acceptable.

#### NOTES -

1) The replacement snubber Serial No 284, ASME Section III, Code Class NF(1) was previously removed from support MS-57. 2) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 284 for RWCU-1C-3-E was installed is Reactor Water Cleanup (RWCU) piping system RWCU(3)-4-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements. 3) E - East

			N PUBLIC PORER	, ,	<b>WOT No H</b>
FO	RM NIS-2 OWNER'S R	_		REPLACEME	NTS (Back)
8 Tests Conducte	d: Hydrostatic Pro Test Pressure: Psig Component Design Pr	eumatic ressure: Psig	· Tes	erating Pressur Temperature: perature: ^o F	
9. Remarks: None		•	*	*	•
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*	CE	RTIFICATE (	OF COMPLIA	ICE	
to the rules of Type Code Sy Certificate Of Expiration Dat	1 0, 1	n XI.		orrect and this $\sqrt{1 + \frac{1}{2}}$	replacement conform
Prepared By _ Date	Kuldip Singh - Program Load I 63188	مرب ك Engin <del>oo</del> r (PLE)	_ Signed By	Kuldip Singh - Pro	nam Load Engineer (PL 198
	CERTIFI	CATE OF IN	SERVICE INS	PECTION	
Vessel Inspect of Waltham, Ma period <u>-//20</u> Owner has per in accordance By signing this implied, conce Furthermore.	ned, holding a valid con tors and the State of Wa ssachusetts have inspec formed examinations a with the requirements of s certificate neither the eming the examinations neither the inspector no erty damage or a loss of	shington and ted the comp nd taken com of the ASME Inspector no and correcti r his employ.	employed by / onents descri d state to the L rective measu Code, Section r his employed ve measures d er shall be liak	Arkwright Mutual bed in this Own res described i XI. makes any wa described in thi ble in any mann	Insurance Company ner's Report during vledge and belief, t n this Owner's Rep rranty, expressed s Owner's Report. er for any persona
1.1	n. Tant	<u> </u>	ommissions <u>/</u>	7486h /7	HSC NISB 2
In	spector's Signature		_	National Board, S	tate, and Endorsements
Date //	198				,
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## WOT No HMH 101 MASHINGTON PUBLIC PORER SUPPLY SYSTEM FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI Date: 05/26/98 1. Owner: Washington Public Power Supply System (WPPSS) Sheet: 1 of 1 Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 Unit: WNP-2 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS) (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
MS-4448-413 Snubber MS-4448-413	Pacific Pacific	318 . 280	N/A N/A	PSA-1/4 PSA-1/4	N/A N/A	Replaced . Replacement	No, Code Class NF(1) No, Code Class NF(1)
Snubber			ł				·
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7. Description Of Work Performed: Replaced existing snubber and forward bracket for support MS-4448-413. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 318.
- 2) Removed existing forward bracket.
- 3) Installed replacement snubber with Serial No 280.
- 4) Installed replacement forward bracket.
- 5) Performed operability test on the replacement snubber. Operability test acceptable.

6) Performed limited (pin to pin) VT-3 visual examination on the installed replacement snubber. VT-3 visual examination results acceptable.

## NOTES -

1) The replacement snubber Serial No 280, ASME Section III, Code Class NF(1) was previously removed from support MS-2619-318. 2) the replacement forward bracket, ASME Section III, Code Class NF(1) and was previously removed from support MS-2619-318 3) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 280 for support MS-4448-413 was installed is Main Steam (MS) piping system MS(9)-4-P1. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.



		SUPPLY SYS		WOT No H
,	FORM NIS-2 OWNER'S	REPORT FOR REPAI	RS OR REPLACEME	NTS (Back)
8 Tests Cond	ducted: Hydrostatic I Test Pressure: Psig Component Design	لتسبيبيا	al Operating Pressur Test Temperature: Temperature:° F	
S. Remarks:	None			
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<b></b>				<u> </u>
	C	ERTIFICATE OF COM	PLIANCE	
Type Cod Certificati	es of the ASME Code, Sect le Symbol Stamp: Not Applica e Of Authorization No.: Not n Date: Not Applicable By Uutury S Kuldip Singh - Program Los 63398	Applicable Signed	Kuldip Singh - Plog	Engineer (PLI SILE
	CERTI	FICATE OF INSERVIC	E INSPECTION	
Vessel In: of Waltham period Owner ha in accord By signin Implied, c Furtherm	ersigned, holding a valid c spectors and the State of V Massachusetts have inspec- to <u>value</u> to <u>value</u> s performed examinations ance with the requirement g this certificate neither the oncerning the examination ore, neither the inspector i property damage or a loss	Vashington and employe ected the components and state to and taken corrective n s of the ASME Code, So e inspector nor his em ns and corrective meas nor his employer shall i	ed by Arkwright Mutual I described In this Own o the best of my know neasures described in ection XI. ployer makes any war ures described in this be liable in any manne	nsurance Company ler's Report during ledge and belief, ti n this Owner's Report granty, expressed of S Owner's Report. er for any personal
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1-1-1	Inspector's Signature	Commissi	National Board, St	ate, and Endorsements
Date	18/98.			

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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352

- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (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
MS-999N Snubber MS-999N Snubber •	Pacific Pacific	328 9917	N/A N/A	PSA-10 PSA-10	NA NA	Replaced Replacement	No, Code Class NF(1) No, Code Class NF(1)

7. Description Of Work Performed: Replaced existing snubber for support MS-999N. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 328.
- 2) Installed replacement snubber with Serial No 9917.

3) Performed operability test on the replacement snubber. Operability test acceptable.

4) Performed limited (pin to pin) VT-3 visual examination on the installed replacement snubber. VT-3 visual examination results acceptable.

#### NOTES -

1) The replacement snubber Serial No 9917, ASME Section III, Code Class NF(1) was previously removed from support MSRV-2C-4. 2) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 9917 for support MS-999N was installed is Main Steam (MS) piping system MS(1)-4C-P2. This piping system is certified to comply with ASME Section III, Code Class 1, 1971 Edition with Winter 1973 Addenda requirements.

Date: 05/26/98 Sheet: 1 of 4-----Unit: WNP-2



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			HUNGTON FULLIC FOREL		WOT I	No HMH 101
FC	RM NIS-2 OW	NER'S REPORT	FOR REPAIRS O	DR REPLACEMI	ENTS (Back)	
3 Tests Conducte	Test Pressure		Te	perating Pressu st Temperature: mperature: ° F		X None
9. Remarks: None					•	•••
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		CERTIFIC	ATE OF COMPLIA	NCE		
to the rules of Type Code Sy	the ASME Cod mbol Stamp: No Authorization N c: Not Applicable	le, Section XI.	wner's Report are Signed By _ PLE) Date	Luca	Freplacement CON gram Load Engined	· · · · · · · · · · · · · · · · · · ·
· · ·						·····
Vessel Inspect of Waltham, Ma period Owner has per in accordance By signing this implied, conce Furthermore, I	ned, holding a tors and the Sta sectoretts hav formed examin with the requires certificate net ming the exam- neither the Insp	valid commission ate of Washington to inspected the pations and take rements of the A lither the Inspect of the the Inspect	DF INSERVICE IN and employed by components desc and state to the n corrective measures SME Code, Section or nor his employer rrective measures aployer shall be lian and arising from or a	ational Board of Arkwright Mutual ribed in this Ow best of my know ures described in n XI. er makes any wa described in th ble in any man	Insurance Comp ner's Report du wledge and bel in this Owner's arranty, expres is Owner's Rep ner for any pers	pany uring the lef, the Report sed or port. sonal
1 e1 111	ADDA		Commissions		State, and Endorser	(BI)
Date 4	spector's Signature			National Board, 3		

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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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (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 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
MD-1285-14C Snubber	Pacific	19886	N/A	PSA-1/4	N/A	Replaced	No, Code Class NF(2)
MD-1285-14C Snubber	Pacific	6209	N/A	PSA-1/4	N/A	Replacement	No, Code Class NF(1)

7. Description Of. Work Performed: Replaced existing snubber and forward bracket for support MD-1285-14C. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 19886.
- 2) Removed existing forward bracket.
- 3) Installed replacement snubber with Serial No 6209.
- 4) Installed replacement forward bracket.
- 5) Performed operability test on the replacement snubber. Operability test acceptable.
- 6) Performed limited (pin to pin) VT-3 visual examination on the installed replacement snubber. VT-3 visual examination results acceptable.

#### NOTES -

- 1) The existing snubber Serial No 19886, ASME Section III, Code Class NF(2) or better.
- 2) The replacement snubber Serial No 6209, ASME Section III, Code Class NF(1) for ASME Section III, Code Class NF(2) application. This snubber was previously removed from support SLC-4453-68.
- 3) The replacement forward bracket, ASME Section III, Code Class NF(1) for ASME Section III, Code Class NF(2) application. This forward bracket was previously removed from support SLC-4453-68.
- 4) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 6209 for support MD-1285-14C was installed is Main Steam (MS) piping system MS(1)-4D-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.

Date: 05/26/98 Sheet: 1 of 1 Unit: WNP-2

	KASHINGTON PUBLIC POWER	WOT No HMH
	OWNER'S REPORT FOR REPAIRS OR R	
Tests Conducted: Hydrosta Test Pres Compone	sure: Psig Test T	ting Pressure Other _ X No emperature:° F erature:° F
: Remarks: None		
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	•	· · · · · · · · · · · · · · · · · · ·
· ·	CERTIFICATE OF COMPLIANC	
	nents made in this Owner's Report are con	rect and this replacement conforms
to the rules of the ASME Type Code Symbol Stam	p: Not Applicable	
Certificate Of Authorizati Expiration Date: Not Applica		nije ⊴ stor st ni
Prepared By	why Surp Signed By	Julaip Singly
Kuldip Singh	Program Lead Engineer (PLE) Ku	Idip Singh - Program Lead Engineer (PLE)
Date	3[48Date	6310
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[		\$
	CERTIFICATE OF INSERVICE INSPE	ECTION .
I, the undersigned, holdi	ng a valid commission issued by the Natio e State of Washington and employed by Ark	nal Board of Boller and Pressure wright Mutual Insurance Company
of Waltham, Massachusetts	have inspected the components describe	d in this Owner's Report during the st of my knowledge and bellef, the
Owner has performed ex	aminations and taken corrective measure equirements of the ASME Code, Section X	s described in this Owner's Report
By signing this certificate	e neither the inspector nor his employer n	nakes any warranty, expressed or
Furthermore, neither the	examinations and corrective measures de Inspector nor his employer shall be liable	In any manner for any personal
Injury or property damag	e or a loss of any kind arising from or con	nected with this inspection.
Lilli Car	Commissions 7	18/1 1486 WISE IS
Inspector's Sign		National Board, State, and Endorsements
Date 10/8/98		• •
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	<b>WOT No HMH</b>
SUPPLY SYSTEM	· · · · · ·
FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPL As Required By The Provisions Of The ASME Code Se	ACEMENTS action XI
1: Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	Date: 05/26/98 Sheet: 1 of 1
2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352	<b>Unit:</b> WNP-2
<ul> <li>3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)</li> <li>(b) Repair Organization P.O. No, Job No, etc.: Washington Public Power Supply System</li> </ul>	n (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 2, 1971 Edition with Win	tor 1973 Moderica, Code Case. I

- (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
MD-1290-11B Snubber	Pacific	378	N/A	PSA-1/4	, N/A	Replaced	No, Code Class NF(2)
MD-1290-11B Snubber	Pacific	28428	N/A	PSA-1/4	N/A	Replacement	No, Code Class NF(1)
						• •.*	
						· · · ·	

7. Description Of Work Performed: Replaced existing snubber for support MD-1290-11B. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 378.
- 2) Installed replacement snubber with Serial No 28428.
- 3) Performed operability test on the replacement snubber. Operability test acceptable.

4) Performed limited (pin to pin) VT-3 visual examination on the installed replacement snubber. VT-3 visual examination results acceptable.

#### NOTES-

1) The existing snubber Serial No 378, ASME Section III, Code Class NF(2) or better.

2) The replacement snubber Serial No 28428, ASME Section III, Code Class NF(1) for ASME Section III, Code Class NF(2) application. This snubber was previously removed from support MS-2619-316.

3) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 28428 for support MD-1290-11B was installed is Main Steam (MS) piping system MS(1)-4D-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.

	6	RASIUNGTON PUBLIC P		WOT No
		SUPPLY SYST	•	
FC	ORM NIS-2 OWNER'S REF	ORT FOR REPAIR	'S OR REPLACI	EMENTS (Back)
B Tests Conducto	ed: Hydrostatic 🔄 Pneu Test Pressure: Psig Component Design Pres		al Operating Pres Test Temperature: º Temperature: º	ure:°F
9. Remarks: None		*		,
•				
r			<u> </u>	
	CERI	TIFICATE OF COM	PLIANCE	
to the rules of Type Code Sy Certificate Of	nt the statements made in t f the ASME Code, Section 2 /mbol Stamp: Not Applicable Authorization No.: Not Applic te: Not Applicable	X1.	are correct and	<i>this</i> replacement <i>confo</i>
Prepared By	X. 2. 0	Slaned طميد	By Kulan	A Ruph
	Kuldip Singh - Program Lead Eng	gineer (PLE)	Kuldip Singh	- Program Lead Erigineer (
Date	e[5] [0	Date	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12[10
· .	CERTIFICA	ATE OF INSERVICE	INSPECTION	
Vessel Inspect of Waltham, Ma period 4/2 Owner has per in accordance By signing the implied, conc Furthermore,	gned, holding a valid comm ctors and the State of Wash assachusetts have inspected to	ington and employed the components d and state to taken corrective m the ASME Code, Se spector nor his emp nd corrective measu his employer shall b	d by Arkwright Mu lescribed in this the best of my i easures describ ction XI. bloyer makes any ures described in the liable in any m	Itual Insurance Compar Owner's Report duri knowledge and belief bed in this Owner's R y warranty, expresse n this Owner's Repor- nanner for any person
21/1	n That	 > Commissi	ons 74/6/4	17486 NZ18-
	nspoctor's Signature	00//////05/0		ard, State, and Endorseme
Date	19/			

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# WOT No MCJ 601 WOT No MCJ 601 SUPPLY SYSTEM FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

- 1. Owner: Washington Public Power Supply System (WPPSS) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
  - (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 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 omponent	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 Clas <del>s</del>
 R-42 Snubber	Pacific	3911	N/A	PSA-3	N/A	Replaced	No, Code Class NF(2)
R-42 Snubber	Pacific	258	N/A	* PSA-3	N/A	Replacement	No, Code Class NF(1)

7. Description Of Work Performed: Replaced existing snubber for support RHR-42. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 3911.
- 2) Installed replacement snubber with Serial No 258.
- 3) Performed operability test on the replacement snubber. Operability test acceptable.
- 4) Performed VT-3 visual examination on the installed replacement snubber. VT-3 visual examination results acceptable.

# NOTES -

- 1) The existing snubber Serial No 3911, ASME Section III, Code Class NF(2) or better.
- 2) The replacement snubber Serial No 258, ASME Section III, Code Class NF(1) for ASME Section III, Code Class NF(2) application. This snubber was previously removed from support RHR-272.
- 3) The existing ASME Code Stamped piping system in which the replacement snubber Serial No 258 for support RHR-42 was installed is Residual Heat Removal (RHR) piping system RHR(3)-1C-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.

Date: 06/24/98 Sheet: 1 of 1 Unit: WNP-2

	WOT NO MCJ 60 SUPPLY SYSTEM
FC	ORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
Tests Conducte	ed: Hydrostatic Pneumatic Nominal Operating Pressure Other Nominal Test Pressure: Psig Component Design Pressure: Psig Temperature: ° F
Remarks: None	,
	CERTIFICATE OF COMPLIANCE
to the rules of Type Code Sy	t the statements made in this Owner's Report are correct and this replacement conforms the ASME Code, Section XI. mbol Stamp: Not Applicable Authorization No.: Not Applicable 'e: Not Applicable
Prepared By	Autch Program Lead Engineer (PLE)       Signed By       Autch Program Lead Engineer (PLE)         6)24 (98       Date       6)24 (98
Vessel Inspect of Waltham, May period Owner has per in accordance By signing this implied, conce Furthermore, r	CERTIFICATE OF INSERVICE INSPECTION ned, holding a valid commission issued by the National Board of Boiler and Pressure fors and the State of Washington and employed by Arkwright Mutual Insurance Company seachusetts have inspected the components described in this Owner's Report during the to and state to the best of my knowledge and belief, the formed examinations and taken corrective measures described in this Owner's Report with the requirements of the ASME Code, Section XI. s certificate neither the Inspector nor his employer makes any warranty, expressed or rning the examinations and corrective measures described in this Owner's Report. heither the Inspector nor his employer shall be liable in any manner for any personal erty damage or a loss of any kind arising from or connected with this inspection.
<u>91.1/11</u>	Commissions 745661 74156 nits 18 IS
Date	spector's Signature National Board, State, and Endorsements

# WOT No MCJ 601



# 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: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 2. Plant: Washington Public Power Supply System (WPPSS) Nuclear Power Plant (WNP) Address: WNP-2 Plant Site, North Power Plant Loop, Richland, Washington, 99352
- 3. (a) Work Performed By: Washington Public Power Supply System (WPPSS)
- (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 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
RHR-39 Snubber - N	Pacific	2348	N/A	PSA-3	N/A	Replaced	No, Code Class NF(2)
RHR-39 Snubber - N	Pacific	4489	N/A	PSA-3	N/A	Replacement	No, Code Class NF(1)
RHR-39 Snubber - S	Pacific	2593	N/A	PSA-3	N/A	Replaced	No, Code Class NF(2)
RHR-39 Snubber - S	Pacific	4429	^ N/A	PSA-3	N/A	Replacement	No, Code Class NF(1)

7. Description Of Work Performed: Replaced existing snubbers for support RHR-39. The replacement work was performed as follows:

- 1) Removed existing snubber with Serial No 2348 from support RHR-39 N.
- 2) Installed replacement snubber with Serial No 4489 for support RHR-39 N.
- 3) Removed existing snubber with Serial No 2593 from support RHR-39 S.
- 4) Installed replacement snubber with Serial No 4429 for support RHR-39 N.
- 5) Performed operability test on the replacement snubbers. Operability test acceptable.

6) Performed VT-3 visual examination on the installed replacement snubbers. VT-3 visual examination results acceptable.

# NOTES.

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- 1) The existing snubber Serial No 2348, ASME Section III, Code Class NF(2) or better.
- 2) The existing snubber Serial No 2593, ASME Section III, Code Class NF(2) or better.
- 3) The replacement snubber Serial No 4489, ASME Section III, Code Class NF(1) for ASME Section III, Code Class NF(2) application. This snubber was previously removed from support FDR-903N.
- 4) The replacement snubber Serial No 4429, ASME Section III, Code Class NF(1) for ASME Section III, Code Class NF(2) application. This snubber was previously removed from support FDR-903N.

5) The existing ASME Code Stamped piping system in which the replacement snubbers Serial No 4489 and 4429 for support RHR-39 were installed is Residual Heat Removal (RHR) piping system RHR(3)-1C-P1. This piping system is certified to comply with ASME Section III, Code Class 2, 1971 Edition with Winter 1973 Addenda requirements.

6) N - North

7) S - South

Date: 06/24/98 Sheet: 1 of 1 Unit: WNP-2

					WOT No MCJ	601
			IN FUBLIC FOWER		·	. + 
FO	RM NIS-2 OWNER'	'S REPORT FOR	REPAIRS OR R	EPLACEMENT	S (Back)	_ *
ests Conducted	d: Hydrostatic Test Pressure: Psig Component Desig	, <u></u>	Test Te	ting Pressure [ emperature:°F rature:°F	Other X No	one
Remarks: None						
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۰. پ		CERTIFICATE (	OF COMPLIANCI	E ·	· · · · ·	]
	the statements mad		s Report are corr	ect and this repla	cement conforms .	1
Type Code Syn	he ASME Code, Se hol Stamp: Not Appli	icable				ļ
Certificate Of A Expiration Date	uthorization No.: No Not Applicable	ot Applicable				
Prepared By	Julaip &	Supp	Signed By	udip S	المناجب	
) Date	Kuldip Singh - Program Li 6 24 98	ead Engineer (PLE)	_ Date	dip Singh - Program $624$	Lead Engineer (PLE)	
			-		4 y	
	CERI	TIFICATE OF IN:	SERVICE INSPE	CTION	· · · · · · · · · · · · · · · · · · ·	]
Vessel Inspecto of Waltham, Mas period <u>6/23/</u> Owner has peri in accordance w By signing this implied, concer Furthermore, no	ed, holding a valid ors and the State of sachusetts have inst	Commission issue Washington and pected the comp and s and taken com the of the ASME ( the inspector nor ons and correction ons and correction	ued by the Nation employed by Arkw onents described I state to the best rective measures Code, Section XI. I his employer ma ve measures desc er shall be liable i	nal Board of Boil wight Mutual Insur I in this Owner's of my knowledge described in this akes any warran cribed in this Own n any manner fo	ance Company Report during the ge and belief, the s Owner's Report ty, expressed or wner's Report. or any personal	
1/ Mite	jector's Signature	Ca	ommissions	tional Board, State, a	ルエンボンン	
Inst	/ /					
	?					
Date 7/1/2	18				•	