NUCLEAR PLANT 2

INSERVICE INSPECTION SUMMARY REPORT FOR REFUELING OUTAGE RF86A

Spring, 1986

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

INSERVICE INSPECTION SUMMARY REPORT
FOR
REFUELING OUTAGE RF86A
JANUARY 19, 1985 TO JUNE 12, 1986

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: 1145 MWe

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

Prepared by:	D P Ramey ISI Engineer	8/4/86 Date
Reviewed by:	Ken J. Hamels FOR T.F. Hoyle Supervisor, Code Programs	8/4/86 Date
	Ken J. Hamels Manager, ISI/NDE	8/4/86 Date
	D W Porter Manager, Engineering Systems Support	8/4/86 Date
	A T Harrold Assistant Director, Generation Engineering	8/5/86 Date
	RCW K D Conover Manager, Plant Technical	8/8/86 Date
	D Nelson Manager, Plant Quality Assurance	8/8/86 Date
Approved by:	C M Powers Plant Manager	8/11/86 Date
Concurrence:	Charles D Roberts Authorized Nuclear Inspector (Inservice)	8/11/86 Date

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EXAMINATION RESULTS

This report summarizes the results of inservice inspections (ISI) of ASME Code Class 1 and 2 components and supports performed at Washington Public Power Supply System (Supply System) Nuclear Plant No. 2 (WNP-2) between January 19, 1985 and June 12, 1986. During this period, WNP-2 experienced two major scheduled outages, M3 for maintenance (Spring 1985) and RF86A for refueling (Spring 1986).

The ISI examinations are specified in ASME Section XI and required by 10CFR50.55a. Examinations of one reactor pressure vessel (RPV) feedwater nozzle, pipe break exclusion areas, and intergranular stress corrosion cracking detection in Code Class 1 stainless steel welds were performed to meet augmented Nuclear Regulatory Commission (Commission) requirements.

The ISI examinations comply with ASME Section XI, 1980 Edition, Winter 1980 Addenda upgraded as following:

IWA-2300(a)(1) upgraded to 1983W83
C-F upgraded to 1983W83
IWF-3400 upgraded to 1980W81

Documentation supporting this Summary Report is included in the ISI Program Plan or is located in the WNP-2 Operations Files. Table II lists by code category examinations completed during this period. Appendix B contains a summary of examination results by ISI drawing number. The ISI drawings referenced are located in the ISI Program Plan previously submitted to the Commission.

The examinations, tests, replacements and repairs were witnessed or verified by Authorized Nuclear Inspectors-Inservice (ANI-I) J. Brent, C. Roberts and D. Vance. They are employed by Lumbermans Mutual Casualty Co., a subsidiary of Kemper Group, Long Grove, IL, 60049.

Components Examined

The following components were examined:

Component	Manufacturer	Serial No.	National Board No.
Reactor Pressure Vessel	CBIN Nuclear Co. 2700 Channel Ave. Memphis, TN	T-45	CBIN-8
RRC-P-1B	Bingham-Willamette Portland, OR	210100 (1)	135
MS-V-22B	Rockwell Manuf. Co. 1900 S. Saunders St. Raleigh, NC	JT-37	69

(1) Another identifier on the NPV-1 Code Data Report is "B-2-1035"

Component	Manufacturer	Serial No.	National Board No.
RFW-V-10A	Anchor/Darling Valve Co. 701 First St Williamsport, PA	IN-260	N/A
RFW-V-10B	Anchor/Darling Valve Co. 701 First St Williamsport, PA	IN-257	N/A
RFW-V-32A	Anchor/Darling Valve Co. 701 First St Williamsport, PA	IN-109	N/A
RFW-V-32B	Anchor/Darling Valve Co. 701 First St Williamsport, PA	IN-110	N/A
RFW-V-65A	Velan 2125 Ward Ave Montreal, Quebec, Canada	0003	N/A

Significant Indications

Significant indications found during the ISI examinations are summarized in Table I. All significant indications were evaluated and found acceptable or were repaired. Evaluations and/or reexamination data reports are attached to the original data report.

Two (2) significant indications were found by ultrasonic (UT) examination. They were evaluated and determined to be due to part geometry. Four (4) indications were found on component supports by visual examination. They were evaluated and found to be acceptable. During the RPV and Class 1 system leakage test conducted at the end of the refueling outage, two (2) pressure boundary leaks were found at bolted connections. They were repaired and retested with acceptable results.

Augmented Examinations

The Supply System performed augmented examinations per the ISI Program Plan Section 5.3 "Mandatory Augmented Inservice Inspection." No unacceptable results were found during the examinations.

- High Energy Lines Penetrating Containment

  A dye penetrant or ultrasonic examination as specified in the ISI Program Plan was performed on 7 of 65 welds in high energy pipe break exclusion areas not within ASME Section XI examination boundary. No unacceptable results were found.

- RPV Feedwater Nozzle

  The nozzle inner radii, bore and safe end regions were examined on one RPV feedwater nozzle per the requirements of the ISI Program Plan Section 5.3.2 "Reactor Feedwater Nozzle". No unacceptable indications were found.

- Intergranular Stress Corrosion Cracking (IGSCC)

  WNP-2 has 39 welds in this augmented inspection program for IGSCC. Thirty-five of these welds received Induction Heating Stress Improvement (IHSI) during the RF86A refueling outage. As part of this task, ultrasonic examinations for the detection of IGSCC by EPRI qualified examiners were performed before and after IHSI on all 35 stress improved welds. No unacceptable indications were found. These examinations complied with the commitment in the ISI Program Plan Section 5.3.4 to examine at least 20% of the 39 service sensitive welds during the first refueling outage. A 100% PT was performed on all thermocouple removal areas associated with IHSI with acceptable results.

- Core Spray Spargers

  An augmented ISI examination was performed on the core spray spargers and associated piping within the RPV per the requirements of IE Bulletin 80-13. A remote underwater TV examination found no unacceptable indications. The results of this examination were reported to the NRC Administrator of Region V via letter G02-86-388 GC Sorensen to JB Martin dated May 1, 1986.

Snubber Testing

The Supply System tests all ASME Code Class 1, 2, and 3 snubbers per WNP-2 Technical Specification 3/4.7.4 instead of the requirements contained in ASME Section XI. It is the Supply System's position that this testing program provides a greater level of plant quality and safety. A request for relief has been submitted to the commission. This alternate testing program has been reviewed by the Supply System's ANI-I.

An initial sample of 55 snubbers was selected from the WNP-2 general population of 827 safety related snubbers. These snubbers were randomly selected by computer sub-routine which is part of the Snubber Test and Examination Program (STEP). The selected snubbers were then reviewed to determine if the sample was representative of plant systems, operating conditions, size, etc. as required by Technical Specification 4.7.4.e. The first sample was judged not to be representative. Another random sample was selected which met the predetermined criteria.

Testing of the small snubbers was mainly performed using portable testing devices ("Validators") supplied by the snubber manufacturer. The larger sizes were tested by a vendor - Paul Munroe. Out of this initial sample one PSA-1/2 snubber failed. Per Technical Specification 4.7.4.e.3 an additional 28 snubbers required testing. The additional snubbers were randomly selected from the remaining Type I (PSA-1/4 and PSA-1/2) population. These small snubbers are more susceptible to physical damage and installation problems than the larger sized snubbers.

Out of the 28 additional Type I snubbers tested, three failed. Again, additional snubbers were required to be tested. At this point it was decided to test all PSA-1/4 and PSA-1/2 snubbers. Out of 121 Type I snubbers installed in the plant, 22 failed. Thirteen (13) were replaced and nine (9) were deleted per engineering evaluation.

The next snubber testing is required within 18 months. At that time the 13 snubbers installed at locations of the failed snubbers require testing. Additionally the Supply System requires testing at the next refueling outage of those snubbers whose drag exceeds 2% but is less than 5%. Fourteen (14) snubbers fall into this category. Therefore, at R-2 a minimum of 83 snubbers will be tested as follows:

55 Tech Spec Plan
13 failed at R-1
14 >2% drag
1 SW System (Spray Pond) (if not part of random sample)
83

Table III summarizes the snubber testing results.

REPAIRS/REPLACEMENTS

During the RF86A refueling outage, two (2) major repair/replacement activities were performed: 1) Repair of reactor recirculation pump RRC-P-1B; and 2) Induction Heating Stress Improvement (IHSI) on 35 reactor recirculation system welds. A listing and summary of these and all other repairs/replacements performed between October 30, 1984 and June 12, 1986 is contained in Appendix C.

RRC Pump

Due to excessive vibration, the B loop reactor recirculation pump was disassembled, inspected, and rebuilt to reduce the vibrations. A VT-3 visual examination of the pump casing accessible internal surfaces and flange surfaces was performed. The pressure retaining bolting received a VT-1 visual and an ultrasonic examination. All results were acceptable.

IHSI

As part of its intergranular stress corrosion cracking mitigation program, WNP-2 completed IHSI on 35 service sensitive welds. Examinations and results were discussed previously on page 5 of this report.

Snubbers

Thirty-one (31) snubbers were replaced. Seven (7) were replaced with rigid struts after engineering evaluation. Three (3) were replaced with larger snubbers after engineering evaluation. Twenty-one (21) were replaced with same designed snubbers. NIS-2 Data Reports for the replacements are contained in Appendix C.

TABLE I

Significant Indications

REPORT NO.	IDENTIFICATION NO.	DESCRIPTION	REMARKS
1HPU-003	12HPCS(1)-6	El to Pipe	141% DAC due to ID geometry
1FWU-003	24RFW(1)B-6	Pipe to El	125% DAC due to ID geometry
1HV-0003	HPCS-P-2(CS)	HPCS Pump Support	No locking devices[1]
1HV-0004	FPC-DM-1A(CS)	FPC Demineralizer Support	No locking devices[1]
1HV-0004	FPC-DM-1B(CS)	FPC Demineralizer Support	No locking devices[1]
1HV-0027	SLC-TK-1(CS)	SLC Tank Support	No locking devices[1]
1RPV-004	STM/Dry Support	Steam dryer seismic lugs	Visual indication during remote CCTV examination. Manual PT/visual exam revealed indication was weld edge.
1VT2-86	MS vent flange	Bulkhead flange on MS vent	Flange leaked during pressure test. Repaired, retested with acceptable results.
1VT2-86	PI-EFC-X18B.	Excess flow check valve	Leaked at bonnet to body connection. Repaired, retested with acceptable results.

NOTES: 1. Locking devices not required for this connection: RFI C0500-3101, states locking devices are "good engineering practice...only required when using high strength bolts, oversized and/or slotted holes.

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
AUGMT	4RCIC(13)-23	PIPE TO EL	RCIC-201	VOL	19860428
	4RCIC(13)-24	EL TO PIPE	RCIC-201	VOL	19860428
	2MS(20)A-1	SOL TO PIPE	MS-201	SUR	19860416
	2MS(20)A-2	PIPE TO EL	MS-201	SUR	19860416
	24RFW(1)A-1A	PIPE TO VALVE	RFW-101	VOL	19860416
	6RWCU(3)-28	VLV TO PIPE	RWCU-301	VOL	19860425
	6RWCU(2)-9	TEE TO VLV	RWCU-303	VOL	19860425
		COUNT = 7			
B-D	N4-30-IR	FW NZ-IR @ 30	RPV-101	VOL	19860512
	N4-30-NB	FW NZ BORE @ 30	RPV-101	VOL	19860512
		COUNT = 2			
B-E	N12	VESS INST PENT	RPV-101	VT-2	19860607
	N13	VESS INST PENT	RPV-101	VT-2	19860607
	N14	VESS INST PENT	RPV-101	VT-2	19860607
	N17	FLG SEAL LK PEN	RPV-101	VT-2	19860607
	N11	SLC BTM HD PEN	RPV-102	VT-2	19860607
	N15	BTM HD DRAIN	RPV-102	VT-2	19860607
	CRD	CRD PEN (185EA)	RPV-102	VT-2	19860607
	INCORE	INCOR PEN(55EA)	RPV-102	VT-2	19860607
		COUNT = 8			
B-F	12RFW(1)AC-11	SE/EX-SE/STUB	RFW-101	VOL	19860426
	12RFW(1)AC-11	SE/EX-SE/STUB	RFW-101	SUR	19860426
	12RFW(1)AC-12	SE/STUB TO SE	RFW-101	VOL	19860426
	12RFW(1)AC-12	SE/STUB TO SE	RFW-101	SUR	19860426
	12RFW(1)AC-13	SE / N4	RFW-101	VOL	19860426
	12RFW(1)AC-13	SE / N4	RFW-101	SUR	19860426

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OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
B-F	4RRC(4)A-11	SE TO VALVE	RRC-108	VOL	19860502
	4RRC(4)B-12	SE TO VALVE	RRC-109	VOL	19860509
		COUNT = 8			
B-G-1	RRC-P-1B-BLT	PUMP BOLTING	RRC-103	VOL	19860415
	RRC-P-1B-BLT	PUMP BOLTING	RRC-103	VT-1	19860416
	RRC-P-1B-BLT	PUMP BOLTING	RRC-103	VT-1	19860412
		COUNT = 3			
B-G-2	CRD HOUSING BLT	CRD HOUSING BLT	RPV-102	VT-1	19860414
		COUNT = 1			
B-J	10RCIC(12)-1	SWL TO PIPE	RCIC-101	VOL	19860417
	10RCIC(12)-2	PIPE TO EL	RCIC-101	VOL	19860417
	10RCIC(12)-2	PIPE TO EL	RCIC-101	SUR	19860417
	10RCIC(12)-3	EL TO PIPE	RCIC-101	VOL	19860417
	10RCIC(12)-3	EL TO PIPE	RCIC-101	SUR	19860417
	10RCIC(12)-4	PIPE TO VLV	RCIC-101	VOL	19860417
	6RCIC(1)-12	PIPE TO VLV	RCIC-102	VOL	19860428
	6RCIC(1)-12	PIPE TO VLV	RCIC-102	SUR	19860428
	12HPCS(1)-6LUO	EL SEAM	HPCS-101	VOL	19860409
	12HPCS(1)-6LUO	EL SEAM	HPCS-101	SUR	19860409
	12HPCS(1)-6LUI	EL SEAM	HPCS-101	VOL	19860409
	12HPCS(1)-6LUI	EL SEAM	HPCS-101	SUR	19860409
	12HPCS(1)-6	EL TO PIPE	HPCS-101	VOL	19860409
	12HPCS(1)-6	EL TO PIPE	HPCS-101	SUR	19860408
	12HPCS(1)-7	PIPE TO EL	HPCS-101	VOL	19860412
	12HPCS(1)-7	PIPE TO EL	HPCS-101	SUR	19860409
	12LPCS(1)-21	PIPE TO VLV	LPCS-101	VOL	19860426

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EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
B-J	12LPCS(1)-21	PIPE TO VLV	LPCS-101	SUR	19860418
	12LPCS(1)-22	VLV TO PIPE	LPCS-101	VOL	19860426
	12LPCS(1)-22	VLV TO PIPE	LPCS-101	SUR	19860418
	12LPCS(1)-23	PIPE TO EL	LPCS-101	VOL	19860426
	12LPCS(1)-23	PIPE TO EL	LPCS-101	SUR	19860418
	14LPCI(1)A-1	VLV TO PIPE	RHR-101	VOL	19860421
	14LPCI(1)A-1	VLV TO PIPE	RHR-101	SUR	19860421
	14LPCI(1)A-2	PIPE TO EL	RHR-101	VOL	19860423
	14LPCI(1)A-2	PIPE TO EL	RHR-101	SUR	19860423
	14LPCI(1)B-16	VALVE TO PIPE	RHR-102	VOL	19860415
	14LPCI(1)B-16	VALVE TO PIPE	RHR-102	SUR	19860415
	14LPCI(1)B-17	PIPE TO EL	RHR-102	VOL	19860415
	14LPCI(1)B-17	PIPE TO EL	RHR-102	SUR	19860415
	14LPCI(1)C-24	EL TO PIPE	RHR-103	VOL	19860414
	14LPCI(1)C-24	EL TO PIPE	RHR-103	SUR	19860415
	14LPCI(1)C-25	PIPE TO REDUCER	RHR-103	VOL	19860415
	14LPCI(1)C-25	PIPE TO REDUCER	RHR-103	SUR	19860415
	20RHR(2)-11	EL TO PIPE	RHR-104	VOL	19860407
	20RHR(2)-11	EL TO PIPE	RHR-104	SUR	19860407
	20RHR(2)-12	PIPE TO PEN	RHR-104	VOL	19860407
	20RHR(2)-12	PIPE TO PEN	RHR-104	SUR	19860407
	12RHR(1)A-11	PIPE TO EL	RHR-105	VOL	19860408
	12RHR(1)A-11	PIPE TO EL	RHR-105	SUR	19860407
	26MS(1)A-3	PIPE TO EL	MS-101	VOL	19860426
	26MS(1)A-3	PIPE TO EL	MS-101	SUR	19860426
	26MS(1)A-3LDI	EL SEAM	MS-101	VOL	19860426
	26MS(1)A-3LDI	EL SEAM	MS-101	SUR	19860428
	26MS(1)A-3LDO	EL SEAM	MS-101	VOL	19860426
	26MS(1)A-3LDO	EL SEAM	MS-101	SUR	19860428
	26MS(1)A-4LUI	EL SEAM	MS-101	VOL	19860426
	26MS(1)A-4LUI	EL SEAM	MS-101	SUR	19860428
	26MS(1)A-4LUO	EL SEAM	MS-101	VOL	19860426

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
B-J	26MS(1)A-4LUG	EL SEAM	MS-101	SUR	19860428
	26MS(1)A-4	EL TO PIPE	MS-101	VOL	19860426
	26MS(1)A-4	EL TO PIPE	MS-101	SUR	19860426
	26MS(1)A-4/2MS(12)-4	HEAD VENT CONN	MS-101	SUR	19860426
	26MS(1)A-6	PIPE TO EL	MS-101	VOL	19860422
	26MS(1)A-6	PIPE TO EL	MS-101	SUR	19860422
	26MS(1)A-7/8MSR-2A	PIPE TO SWL	MS-101	VOL	19860422
	26MS(1)A-7/8MSR-2A	PIPE TO SWL	MS-101	SUR	19860422
	26MS(1)A-7/8MSR-1A	PIPE TO SWL	MS-101	VOL	19860422
	26MS(1)A-7/8MSR-1A	PIPE TO SWL	MS-101	SUR	19860422
	26MS(1)A-15	PIPE TO VALVE	MS-101	VOL	19860503
	26MS(1)A-15	PIPE TO VALVE	MS-101	SUR	19860503
	26MS(1)A-16	VALVE TO PENE	MS-101	VOL	19860501
	26MS(1)A-16	VALVE TO PENE	MS-101	SUR	19860501
	26MS(1)A-17	PENE TO VALVE	MS-101	VOL	19860414
	26MS(1)A-17	PENE TO VALVE	MS-101	SUR	19860414
	MS-V-28A/2MS(9)-4	DRAIN CONN	MS-101	SUR	19860414
	24RFW(1)A-1	VALVE TO PIPE	RFW-101	VOL	19860416
	24RFW(1)A-1	VALVE TO PIPE	RFW-101	SUR	19860416
	24RFW(1)A-1/5RFW(11)-4	PIPE TO WOL	RFW-101	VOL	19860416
	24RFW(1)A-1/5RFW(11)-4	PIPE TO WOL	RFW-101	SUR	19860416
	24RFW(1)A-15	PIPE TO TEE	RFW-101	VOL	19860414
	24RFW(1)A-15	PIPE TO TEE	RFW-101	SUR	19860412
	12RFW(1)AC-6	PIPE TO EL	RFW-101	VOL	19860422
	12RFW(1)AC-6	PIPE TO EL	RFW-101	SUR	19860422
	12RFW(1)AC-7	EL TO PIPE	RFW-101	VOL	19860422
	12RFW(1)AC-7	EL TO PIPE	RFW-101	SUR	19860422
	12RFW(1)AC-8	PIPE TO EL	RFW-101	VOL	19860426
	12RFW(1)AC-8	PIPE TO EL	RFW-101	SUR	19860426
	12RFW(1)AC-9	EL TO PIPE	RFW-101	VOL	19860426
	12RFW(1)AC-9	EL TO PIPE	RFW-101	SUR	19860426
	12RFW(1)AC-10	PIPE-SE EXT	RFW-101	VOL	19860426

TABLE II

EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
B-J	12RFW(1)AC-10	PIPE-SE EXT	RFW-101	SUR	19860426
	24RFW(1)B-6	PIPE TO EL	RFW-102	VOL	19860410
	24RFW(1)B-6	PIPE TO EL	RFW-102	SUR	19860408
	24RFW(1)B-6LDO	EL SEAM	RFW-102	VOL	19860410
	24RFW(1)B-6LDO	EL SEAM	RFW-102	SUR	19860408
	24RFW(1)B-6LDI	EL SEAM	RFW-102	VOL	19860410
	24RFW(1)B-6LDI	EL SEAM	RFW-102	SUR	19860408
	24RFW(1)B-7LUI	EL SEAM	RFW-102	VOL	19860410
	24RFW(1)B-7LUI	EL SEAM	RFW-102	SUR	19860408
	24RFW(1)B-7LUO	EL SEAM	RFW-102	VOL	19860410
	24RFW(1)B-7LUO	EL SEAM	RFW-102	SUR	19860408
	24RFW(1)B-7	EL TO PIPE	RFW-102	VOL	19860410
	24RFW(1)B-7	EL TO PIPE	RFW-102	SUR	19860408
	12RFW(1)BD-1	REDUCER TO PIPE	RFW-102	VOL	19860411
	12RFW(1)BD-1	REDUCER TO PIPE	RFW-102	SUR	19860408
	12RFW(1)BD-2	PIPE TO EL	RFW-102	VOL	19860411
	12RFW(1)BD-2	PIPE TO EL	RFW-102	SUR	19860409
	12RFW(1)BD-3	EL TO PIPE	RFW-102	VOL	19860411
	12RFW(1)BD-3	EL TO PIPE	RFW-102	SUR	19860408
	6RFW(11)-1	VALVE TO PIPE	RFW-103	VOL	19860425
	6RFW(11)-1	VALVE TO PIPE	RFW-103	SUR	19860425
	6RFW(11)-2	PIPE TO EL	RFW-103	VOL	19860425
	6RFW(11)-2	PIPE TO EL	RFW-103	SUR	19860425
	24RRC(2)A-10/4RRC(8)-4S	PIPE TO SWL	RRC-101	VOL	19860507
	24RRC(2)A-10/4RRC(4)-4S	PIPE TO SWL	RRC-101	VOL	19860507
	24RRC(1)A-13/8CAP	PIPE TO SWL	RRC-101	VOL	19860507
	24RRC(1)A-13/4RRC(8)-4S	PIPE TO SWL	RRC-101	VOL	19860507
	24RRC(1)A-13/4RRC(8)-4S	PIPE TO SWL	RRC-101	SUR	19860507
	24RRC(1)A-20/12RRC(7)-4S	PIPE TO SWL	RRC-101	VOL	19860507
	24RRC(1)A-20/12CAP	PIPE TO SWL	RRC-101	VOL	19860507
	24RRC(1)A-20/12CAP	PIPE TO SWL	RRC-101	SUR	19860507
	24RRC(2)B-8/4RRC(8)-4S	PIPE TO SWL	RRC-102	VOL	19860417

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
B-J	24RRC(2)B-8/4RRC(4)-4S	PIPE TO SWL	RRC-102	VOL	19860417
	24RRC(1)B-11/8CAP	PIPE TO SWL	RRC-102	VOL	19860417
	24RRC(1)B-11/4RRC(8)-4S	PIPE TO SWL	RRC-102	VOL	19860418
	24RRC(1)B-18/12RRC(7)-4S	PIPE TO SWL	RRC-102	VOL	19860508
	24RRC(1)B-18/12CAP	PIPE TO SWL	RRC-102	VOL	19860508
	4RRC(51)-6	PIPE TO VALVE	RRC-104	VOL	19860411
	4RRC(51)-6	PIPE TO VALVE	RRC-104	SUR	19860410
	4RRC(4)A-1	SOL TO PIPE	RRC-108	VOL	19860503
	4RRC(4)A-1	SOL TO PIPE	RRC-108	SUR	19860503
	4RRC(4)A-2	PIPE TO TEE	RRC-108	VOL	19860503
	4RRC(4)A-3	PIPE TO REDUCER	RRC-108	VOL	19860503
	4RRC(4)A-4	PIPE TO TEE	RRC-108	VOL	19860503
	4RRC(4)A-5	TEE TO PIPE	RRC-108	VOL	19860503
	4RRC(4)A-5	TEE TO PIPE	RRC-108	SUR	19860503
	4RRC(4)A-6	PIPE TO EL	RRC-108	VOL	19860503
	4RRC(4)A-7	EL TO PIPE	RRC-108	VOL	19860503
	4RRC(4)A-8	PIPE TO EL	RRC-108	VOL	19860502
	4RRC(4)A-9	EL TO PIPE	RRC-108	VOL	19860502
	4RRC(4)A-10	PIPE - VALVE SE	RRC-108	VOL	19860502
	4RRC(4)B-1	SWL TO PIPE	RRC-109	VOL	19860510
	4RRC(4)B-2	PIPE TO TEE	RRC-109	VOL	19860510
	4RRC(4)B-3	PIPE TO REDUCER	RRC-109	VOL	19860510
	4RRC(4)B-4	PIPE TO TEE	RRC-109	VOL	19860510
	4RRC(4)B-5	TEE TO PIPE	RRC-109	VOL	19860510
	4RRC(4)B-6	PIPE TO EL	RRC-109	VOL	19860510
	4RRC(4)B-7	EL TO PIPE	RRC-109	VOL	19860510
	4RRC(4)B-8	PIPE TO PIPE	RRC-109	VOL	19860509
	4RRC(4)B-9	PIPE TO EL	RRC-109	VOL	19860509
	4RRC(4)B-9	PIPE TO EL	RRC-109	SUR	19860509
	4RRC(4)B-10	EL TO PIPE	RRC-109	VOL	19860509
	4RRC(4)B-11	PIPE - VALVE SE	RRC-109	VOL	19860509
	4RRC(4)B-11	PIPE - VALVE SE	RRC-109	SUR	19860509

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
B-J	2RRC(6)A-1	REDUCER TO EL	RRC-110	SUR	19860417
	2RRC(6)A-2	EL TO PIPE	RRC-110	SUR	19860417
	2RRC(6)B-1	REDUCER TO EL	RRC-111	SUR	19860418
	2RRC(6)B-3	EL TO PIPE	RRC-111	SUR	19860418
	6RWCU(3)-27	PIPE TO VALVE	RWCU-101	VOL	19860425
	6RWCU(3)-27	PIPE TO VALVE	RWCU-101	SUR	19860424
		COUNT = 151			
B-K-1	RHR-SB-34(W)	8 WELDED LUGS	RHR-106	SUR	19860409
	MS-HA-1(W)	4 WELDED LUGS	MS-101	SUR	19860426
	RFW-182(W)	6 WELDED LUGS	RFW-102	SUR	19860412
	RFW-175(W)	6 WELDED LUGS	RFW-102	SUR	19860412
	RRC-RB-1(W)	1 WELDED LUG	RRC-103	SUR	19860326
		COUNT = 5			
B-L-2	RRC-P-1B-BDY	PUMP BODY	RRC-103	VT-3	19860412
		COUNT = 1			
B-M-2	MS-V-22B-BDY	VALVE BODY	MS-102	VT-3	19850518
	RFW-V-65A-BDY	VALVE BODY	RFW-101	VT-3	19850609
	RFW-V-32A-BDY	VALVE BODY	RFW-101	VT-3	19850527
	RFW-V-10A-BDY	VALVE BODY	RFW-101	VT-3	19850530
	RFW-V-32B-BDY	VALVE BODY	RFW-102	VT-3	19850525
	RFW-V-10B-BDY	VALVE BODY	RFW-102	VT-3	19860530
		COUNT = 6			
B-N-1	RPV INTERIOR	RPV INTERIOR	RPV-101	VT-3	19860512
		COUNT = 1			

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
B-P	RPV-PB-101(L)	LK PRES BNDRY	RPV-101	VT-2	19860607
	RPV-PB-102(L)	LK PRES BNDRY	RPV-102	VT-2	19860607
	RCIC-PB-101(L)	LK PRES BNDRY	RCIC-101	VT-2	19860607
	RCIC-PB-102(L)	LK PRES BNDRY	RCIC-102	VT-2	19860607
	HPCS-PB-101(L)	LK PRES BNDRY	HPCS-101	VT-2	19860607
	LPCS-PB-101(L)	LK PRES BNDRY	LPCS-101	VT-2	19860607
	RHR-PB-101(L)	LK PRES BNDRY	RHR-101	VT-2	19860607
	RHR-PB-102(L)	LK PRES BNDRY	RHR-102	VT-2	19860607
	RHR-PB-103(L)	LK PRES BNDRY	RHR-103	VT-2	19860607
	RHR-PB-104(L)	LK PRES BNDRY	RHR-104	VT-2	19860607
	RHR-PB-105(L)	LK PRES BNDRY	RHR-105	VT-2	19860607
	RHR-PB-106(L)	LK PRES BNDRY	RHR-106	VT-2	19860607
	MS-PB-101(L)	LK PRES BNDRY	MS-101	VT-2	19860607
	MS-PB-102(L)	LK PRES BNDRY	MS-102	VT-2	19860607
	MS-PB-103(L)	LK PRES BNDRY	MS-103	VT-2	19860607
	MS-PB-104(L)	LK PRES BNDRY	MS-104	VT-2	19860607
	MS-PB-105(L)	LK PRES BNDRY	MS-105	VT-2	19860607
	MS-PB-106(L)	LK PRES BNDRY	MS-106	VT-2	19860670
	RFW-PB-101(L)	LK PRES BNDRY	RFW-101	VT-2	19860607
	RFW-PB-102(L)	LK PRES BNDRY	RFW-102	VT-2	19860607
	RFW-PB-103(L)	LK PRES BNDRY	RFW-103	VT-2	19860607
	RRC-PB-101(L)	LK PRES BNDRY	RRC-101	VT-2	19860607
	RRC-PB-102(L)	LK PRES BNDRY	RRC-102	VT-2	19860607
	RRC-PB-103(L)	LK PRES BNDRY	RRC-103	VT-2	19860607
	RRC-PB-104(L)	LK PRES BNDRY	RRC-104	VT-2	19860607
	RRC-PB-105(L)	LK PRES BNDRY	RRC-105	VT-2	19860607
	RRC-PB-106(L)	LK PRES BNDRY	RRC-106	VT-2	19860607
	RRC-PB-107(L)	LK PRES BNDRY	RRC-107	VT-2	19860607
	RRC-PB-108(L)	LK PRES BNDRY	RRC-108	VT-2	19860607
	RRC-PB-109(L)	LK PRES BNDRY	RRC-109	VT-2	19860607
	RRC-PB-110(L)	LK PRES BNDRY	RRC-110	VT-2	19860607
	RRC-PB-111(L)	LK PRES BNDRY	RRC-111	VT-2	19860607

TABLE II

EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
B-P	RWCU-PB-101(L)	LK PRES BNDRY	RWCU-101	VT-2	19860607
	SLC-PB-101(L)	LK PRESS BNDRY	SLC-101	VT-2	19860607
		COUNT = 34			
C-C	RHR-157(W)	4 WELDED LUGS	RHR-201	SUR	19860423
	RHR-238(W)	2 WELDED SADDLE	RHR-201	SUR	19860419
	RHR-948N(W)	2 WELDED SADDLE	RHR-203	SUR	19860416
	MS-114(W)	8 WELDED LUGS	MS-201	SUR	19860411
	MS-89(W)	4 WELDED LUGS	MS-201	SUR	19860418
	MS-147(W)	8 WELDED LUGS	MS-202	SUR	19860425
		COUNT = 6			
C-F-2	14RHR(1)A-2	PIPE TO EL	RHR-201	SUR	19860423
	14RHR(1)A-2	PIPE TO EL	RHR-201	VOL	19860423
	14RHR(1)A-3	EL TO PIPE	RHR-201	SUR	19860423
	14RHR(1)A-3	EL TO PIPE	RHR-201	VOL	19860423
	18RHR(1)A-1	REDUCER TO PIPE	RHR-201	SUR	19860423
	18RHR(1)A-1	REDUCER TO PIPE	RHR-201	VOL	19860423
	18RHR(1)A-8	PIPE TO TEE	RHR-201	SUR	19860421
	18RHR(1)A-8	PIPE TO TEE	RHR-201	VOL	19860421
	18RHR(1)A-24	EL TO PIPE	RHR-201	SUR	19860419
	18RHR(1)A-24	EL TO PIPE	RHR-201	VOL	19860419
	18RHR(1)A-25	PIPE TO EL	RHR-201	SUR	19860419
	18RHR(1)A-25	PIPE TO EL	RHR-201	VOL	19860419
	18RHR(1)A-30	EL TO PIPE	RHR-201	SUR	19860419
	18RHR(1)A-30	EL TO PIPE	RHR-201	VOL	19860419
	26MS(1)A-18	VALVE TO PIPE	MS-201	VOL	19860414
	26MS(1)A-18	VALVE TO PIPE	MS-201	SUR	19860414
	26MS(1)A-18LD	PIPE LONG SEAM	MS-201	VOL	19860414
	26MS(1)A-18LD	PIPE LONG SEAM	MS-201	SUR	19860414

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
C-F-2	26MS(1)A-19LU	PIPE LONG SEAM	MS-201	VOL	19860414
	26MS(1)A-19LU	PIPE LONG SEAM	MS-201	SUR	19860414
	26MS(1)A-19	PIPE TO PIPE	MS-201	VOL	19860414
	26MS(1)A-19	PIPE TO PIPE	MS-201	SUR	19860414
	26MS(1)A-19LD	PIPE LONG SEAM	MS-201	VOL	19860414
	26MS(1)A-19LD	PIPE LONG SEAM	MS-201	SUR	19860414
	30MS(1)A-8LUI	EL SEAM	MS-201	VOL	19860411
	30MS(1)A-8LUI	EL SEAM	MS-201	SUR	19860411
	30MS(1)A-8LUO	EL SEAM	MS-201	VOL	19860411
	30MS(1)A-8LUO	EL SEAM	MS-201	SUR	19860411
	30MS(1)A-8	EL TO PIPE	MS-201	VOL	19860411
	30MS(1)A-8	EL TO PIPE	MS-201	SUR	19860411
	30MS(1)A-8LD	PIPE LONG SEAM	MS-201	VOL	19860411
	30MS(1)A-8LD	PIPE LONG SEAM	MS-201	SUR	19864111
	30MS(1)A-13LUO	EL SEAM	MS-201	VOL	19860411
	30MS(1)A-13LUO	EL SEAM	MS-201	SUR	19860411
	30MS(1)A-13	EL TO PIPE	MS-201	VOL	19860411
	30MS(1)A-13	EL TO PIPE	MS-201	SUR	19860411
	30MS(1)A-13LD	PIPE LONG SEAM	MS-201	VOL	19860411
	30MS(1)A-13LD	PIPE LONG SEAM	MS-201	SUR	19860411
	30MS(1)B-19LU	PIPE LONG SEAM	MS-202	VOL	19860425
	30MS(1)B-19LU	PIPE LONG SEAM	MS-202	SUR	19860425
	30MS(1)B-19	PIPE TO EL	MS-202	VOL	19860425
	30MS(1)B-19	PIPE TO EL	MS-202	SUR	19860425
	30MS(1)B-19LDO	EL SEAM	MS-202	VOL	19860425
	30MS(1)B-19LDO	EL SEAM	MS-202	SUR	19860425
	30MS(1)B-20LUO	EL SEAM	MS-202	VOL	19860425
	30MS(1)B-20LUO	EL SEAM	MS-202	SUR	19860425
	30MS(1)B-20	EL TO PIPE	MS-202	VOL	19860425
	30MS(1)B-20	EL TO PIPE	MS-202	SUR	19860425
	30MS(1)B-20LD	PIPE LONG SEAM	MS-202	VOL	19860425
	30MS(1)B-20LD	PIPE LONG SEAM	MS-202	SUR	19860425

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
C-F-2	30MS(1)B-24/6MS(1)-4	WOL TO PIPE	MS-202	SUR	19860424
	6MS(1)B-1	PIPE TO WOL	MS-202	SUR	19860424
	6MS(1)B-1	PIPE TO WOL	MS-202	VOL	19860424
	6MS(1)B-2	CAP TO PIPE	MS-202	SUR	19860424
	6MS(1)B-2	CAP TO PIPE	MS-202	VOL	19860424
	30MS(1)B-27LU	PIPE LONG SEAM	MS-202	VOL	19860424
	30MS(1)B-27LU	PIPE LONG SEAM	MS-202	SUR	19860424
	30MS(1)B-27	PIPE TO EL	MS-202	VOL	19860424
	30MS(1)B-27	PIPE TO EL	MS-202	SUR	19860224
	30MS(1)B-27LDO	EL SEAM	MS-202	VOL	19860424
	30MS(1)B-27LDO	EL SEAM	MS-202	SUR	19860424
	30MS(1)B-28LUO	EL SEAM	MS-202	VOL	19860424
	30MS(1)B-28LUO	EL SEAM	MS-202	SUR	19860424
	30MS(1)B-28	EL TO PIPE	MS-202	VOL	19860424
	30MS(1)B-28	EL TO PIPE	MS-202	SUR	19860424
	30MS(1)B-28LD	PIPE LONG SEAM	MS-202	VOL	19860424
	30MS(1)B-28LD	PIPE LONG SEAM	MS-202	SUR	19860424
		COUNT = 67			
IWF	RPV STAB 45	STABLIZER	RPV-101	VT3H	19860321
	RPV STAB 135	STABLIZER	RPV-101	VT3H	19860321
	RPV STAB 225	STABLIZER	RPV-101	VT3H	19860321
	RPV STAB 315	STABLIZER	RPV-101	VT3H	19860321
	RPV STAB 0	STABLIZER	RPV-101	VT3H	19860321
	RPV STAB 90	STABLIZER	RPV-101	VT3H	19860321
	RPV STAB 180	STABLIZER	RPV-101	VT3H	19860321
	RPV STAB 270	STABLIZER	RPV-101	VT3H	19860321
	RPV(CS)	SKIRT & BAS PLT	RPV-101	VT3H	19860321
	RCIC-75	SPRING	RCIC-101	VT3H	19860331
	RCIC-1C-9	PSA-10 SNUBBER	RCIC-101	VT3H	19860331
	RCIC-1C-10	PSA-3 SNUBBER	RCIC-101	VT3H	19860331

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
IWF	RCIC-1C-12	PSA-3 SNUBBER	RCIC-101	VT3H	19860331
	RCIC-1C-15	PSA-3 SN(2)	RCIC-101	VT3H	19860331
	RCIC-948N	PSA-3 SN(2)	RCIC-102	VT3H	19860401
	RCIC-937N	PSA-3 SNUBBER	RCIC-102	VT3H	19860331
	RCIC-1	PSA-1 SNUBBER	RCIC-203	VT3H	19860327
	RCIC-2	PSA-1 SNUBBER	RCIC-203	VT3H	19860327
	RCIC-3	SPRING (2)	RCIC-203	VT3H	19860327
	RCIC-P-1(CS)	PUMP BASE	RCIC-204	VT3H	19860327
	RCIC-79	BOX	RCIC-205	VT3H	19860328
	RCIC-80	STRUT	RCIC-205	VT3H	19860401
	RCIC-82	BOX	RCIC-205	VT3H	19860401
	RCIC-83	SPRING	RCIC-205	VT3H	19860401
	HPCS-910N	PSA-3 SN(2)	HPCS-101	VT3H	19860331
	HPCS-911N	PSA-10 SNUBBER	HPCS-101	VT3H	19860331
	HPCS-P-1(CS)	PUMP BASE	HPCS-201	VT3H	19860329
	HPCS-44	SPRING	HPCS-202	VT3H	19860329
	HPCS-13	ANCHOR	HPCS-202	VT3H	19860329
	HPCS-15	ANCHOR	HPCS-202	VT3H	19860328
	HPCS-7	ANCHOR	HPCS-205	VT3H	19860329
	LPCS-61	PSA-10 SN(2)	LPCS-101	VT3H	19860331
	LPCS-P-1(CS)	PUMP BASE	LPCS-201	VT3H	19860326
	LPCS-901N	ANCHOR	LPCS-202	VT3H	19860404
	LPCS-18	SPRING	LPCS-202	VT3H	19860404
	LPCS-911N	SPRING	LPCS-205	VT3H	19860326
	RHR-941N	PSA-10 SNUBBER	RHR-101	VT3H	19860328
	RHR-390	PSA-35 SNUBBER	RHR-102	VT3H	19860331
	RHR-78	SPRING	RHR-104	VT3H	19860329
	RHR-SA-37	PSA-35 SNUBBER	RHR-105	VT3H	19860331
	RHR-510	SPRING	RHR-105	VT3H	19860331
	RHR-512	SPRING	RHR-106	VT3H	19860331
	RHR-SB-34	PSA-10 SN(2)	RHR-106	VT3H	19860331
	RHR-157	SPRING	RHR-201	VT3H	19860326

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
IWF	RHR-599	PSA-3 SNUBBER	RHR-201	VT3H	19860402
	RHR-1000N	PSA-3 SNUBBER	RHR-201	VT3H	19860402
	RHR-1001N	PSA-3 SN(2)	RHR-201	VT3H	19860402
	RHR-238	ANCHOR	RHR-201	VT3H	19860401
	RHR-249	BOX	RHR-202	VT3H	19860401
	RHR-251	PSA-3 SNUBBER	RHR-202	VT3H	19860401
	RHR-948N	PSA-3 SN(2)	RHR-203	VT3H	19860328
	RHR-947N	PSA-3 SN(2)	RHR-203	VT3H	19860328
	RHR-129	STRUT	RHR-206	VT3H	19860326
	RHR-423	SPRING	RHR-206	VT3H	19860326
	RHR-548	PSA-3 SN(2)	RHR-207	VT3H	19860401
	RHR-942N	PSA-1 SN(2)	RHR-207	VT3H	19860326
	RHR-922N	PSA-1 SNUBBER	RHR-207	VT3H	19860326
	RHR-945N	PSA-1 SN(2)	RHR-207	VT3H	19860326
	RHR-316	SPRING	RHR-210	VT3H	19860404
	RHR-999N	STRUT	RHR-210	VT3H	19860404
	RHR-297	RIGID	RHR-210	VT3H	19860404
	RHR-140	SPRING	RHR-211	VT3H	19860327
	RHR-49	STRUT	RHR-211	VT3H	19860327
	RHR-990N	BOX	RHR-212	VT3H	19860327
	RHR-P-2A(CS)	RHR PUMP BASE	RHR-213	VT3H	19860327
	RHR-P-2B(CS)	RHR PUMP BASE	RHR-213	VT3H	19860326
	RHR-P-2C(CS)	RHR PUMP BASE	RHR-213	VT3H	19860326
	RHR-HX-1A(CS)	HX BASE	RHR-214	VT3H	19860402
	RHR-HX-1B(CS)	HX BASE	RHR-214	VT3H	19860402
	MS-SA-6	PSA-35 SNUBBER	MS-101	VT3H	19860331
	MS-SA-7	PSA-35 SNUBBER	MS-101	VT3H	19860331
	MS-SA-1	PSA-100 SNUBBER	MS-101	VT3H	19860331
	MS-SA-2	PSA-100 SNUBBER	MS-101	VT3H	19860331
	MS-135	PSA-35 SNUBBER	MS-201	VT3H	19860410
	MS-993N	PSA-10 SN(2)	MS-201	VT3H	19860410
	MS-117	SPRING (2)	MS-201	VT3H	19860410

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
IWF	MS-114	PSA-10 SN(2)	MS-201	VT3H	19860410
	MS-89	SPRING (2)	MS-201	VT3H	19860410
	MS-176	SPRING	MS-202	VT3H	19860326
	RFW-186	SPRING	RFW-101	VT3H	19860331
	RFW-160	PSA-10 SN(2)	RFW-101	VT3H	19860331
	RFW-154	PSA-10 SN(2)	RFW-101	VT3H	19860331
	RFW-162	PSA-10 SN(2)	RFW-102	VT3H	19860331
	RFW-175	SPRING	RFW-102	VT3H	19860331
	RRC-HB-1	SPRING (2)	RRC-102	VT3H	19860331
	RRC-SB-16	PSA-35 SN(2)	RRC-102	VT3H	19860331
	RRC-SB-7	PSA-35 SNUBBER	RRC-102	VT3H	19860331
	RRC-SB-65	PSA-35 SNUBBER	RRC-102	VT3H	19860331
	RRC-SB-15	PSA-35 SNUBBER	RRC-102	VT3H	19860331
	RRC-SB-3	PSA-100 SNUBBER	RRC-103	VT3H	19860328
	RRC-SB-4	PSA-100 SNUBBER	RRC-103	VT3H	19860328
	RRC-SB-5	PSA-100 SNUBBER	RRC-103	VT3H	19860328
	RRC-SB-6	PSA-100 SNUBBER	RRC-103	VT3H	19860328
	RRC-RB-1	STRUT	RRC-103	VT3H	19860328
	RRC-1C-8PS	STRUT	RRC-108	VT3H	19860329
	RWCU-1C-16	PSA-1 SNUBBER	RWCU-101	VT3H	19860331
	RWCU-1C-9PS	STRUT	RWCU-101	VT3H	19860331
	RWCU-926N	PSA-35 SNUBBER	RWCU-101	VT3H	19860328
	RWCU-900N	PSA-3 SN(2)	RWCU-101	VT3H	19860328
	SW-P-1A(CS)	PUMP BASE	SW-301	VT3H	19860328
	SW-78	SPRING (2)	SW-301	VT3H	19860328
	SW-121	SPRING (2)	SW-301	VT3H	19860329
	SW-202	STRUT	SW-301	VT3H	19860328
	DCW-HX-1A1(CS)	HX BASE	SW-302	VT3H	19860328
	DCW-HX-1A2(CS)	HX BASE	SW-302	VT3H	19860328
	SW-153	BOX	SW-303	VT3H	19860401
	SW-151	STRUT	SW-303	VT3H	19860328
	SW-212	BOX	SW-303	VT3H	19860328

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE	CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
IWF		SW-149	BOX	SW-303	VT3H	19860329
		SW-150	SPRING (2)	SW-303	VT3H	19860329
		SW-353	BOX	SW-304	VT3H	19860328
		SW-P-1B(CS)	PUMP BASE	SW-305	VT3H	19860328
		SW-198	BOX	SW-305	VT3H	19860328
		DCW-HX-1B1(CS)	HX BASE	SW-306	VT3H	19860328
		DCW-HX-1B2(CS)	HX BASE	SW-306	VT3H	19860328
		SW-251	BOX	SW-308	VT3H	19860328
		HPCS-P-2(CS)	PUMP BASE	SW-309	VT3H	19860328
		DCW-HX-1C(CS)	HX BASE	SW-310	VT3H	19860328
		SW-961N	RIGID	SW-312	VT3H	19860328
		SW-960N	RIGID	SW-313	VT3H	19860328
		FPC-903N	ANCHOR	FPC-201	VT3H	19860329
		FPC-86	SPRING	FPC-301	VT3H	19860401
		FPC-P-1A(CS)	PUMP BASE	FPC-301	VT3H	19860401
		FPC-P-1B(CS)	PUMP BASE	FPC-301	VT3H	19860401
		FPC-HX-1A(CS)	HX BASE	FPC-302	VT3H	19860401
		FPC-HX-1B(CS)	HX BASE	FPC-303	VT3H	19860401
		FPC-DM-1A(CS)	DEMIN BASE	FPC-304	VT3H	19860328
		FPC-112	STRUT	FPC-304	VT3H	19860328
		FPC-116	RIGID	FPC-304	VT3H	19860328
		FPC-DM-1B(CS)	DEMIN BASE	FPC-304	VT3H	19860328
		FPC-93	RIGID	FPC-305	VT3H	19860328
		FPC-226	SPRING	FPC-305	VT3H	19860401
		FPC-224	BOX	FPC-305	VT3H	19860401
		FPC-223	ANCHOR	FPC-305	VT3H	19860401
		FPC-209	BOX	FPC-305	VT3H	19860401
		FPC-210	BOX	FPC-305	VT3H	19860401
		FPC-P-3(CS)	PUMP BASE	FPC-306	VT3H	19860327
		FPC-45	BOX	FPC-307	VT3H	19860327
		FPC-21	STRUT	FPC-308	VT3H	19860405
		FPC-22	SPRING	FPC-308	VT3H	19860405

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
IWF	RCC-434	ANCHOR	RCC-301	VT3H	19860331
	RCC-440	ANCHOR	RCC-301	VT3H	19860331
	RCC-327	SPRING	RCC-302	VT3H	19860331
	RCC-945N	RIGID	RCC-303	VT3H	19860401
	MSRV-1A-1	PSA-10 SNUBBER	MS-301	VT3H	19860331
	MS-266	SPRING	MS-301	VT3H	19860331
	MSRV-1A-3	PSA-10 SNUBBER	MS-301	VT3H	19860331
	MSRV-1A-4	PSA-10 SNUBBER	MS-301	VT3H	19860331
	MSRV-1A-2	PSA-10 SNUBBER	MS-301	VT3H	19860331
	MS-267	SPRING	MS-301	VT3H	19860331
	MSRV-1A-5	PSA-10 SNUBBER	MS-301	VT3H	19860331
	MSRV-1A-6	PSA-10 SNUBBER	MS-301	VT3H	19860331
	MS-268	SPRING	MS-301	VT3H	19860331
	MSRV-1A-7PS	RIGID	MS-301	VT3H	19860331
	MS-269	SPRING	MS-302	VT3H	19860331
	MSRV-2A-2	PSA-10 SNUBBER	MS-302	VT3H	19860331
	MSRV-2A-3	PSA-35 SNUBBER	MS-302	VT3H	19860331
	MSRV-2A-1	PSA-10 SNUBBER	MS-302	VT3H	19860331
	MSRV-2A-5	PSA-10 SNUBBER	MS-302	VT3H	19860331
	MS-270	SPRING	MS-302	VT3H	19860331
	MSRV-2A-4	PSA-10 SNUBBER	MS-302	VT3H	19860331
	MS-271	SPRING	MS-302	VT3H	19860331
	MS-332	SPRING	MS-302	VT3H	19860331
	MSRV-2A-5PS	RIGID	MS-302	VT3H	19860331
	MSRV-3A-2	PSA-10 SNUBBER	MS-303	VT3H	19860331
	MSRV-3A-3	PSA-10 SNUBBER	MS-303	VT3H	19860331
	MSRV-3A-1	PSA-10 SNUBBER	MS-303	VT3H	19860331
	MSRV-3A-4	PSA-10 SNUBBER	MS-303	VT3H	19860331
	MSRV-3A-5	PSA-10 SNUBBER	MS-303	VT3H	19860331
	MSRV-3A-6	PSA-10 SNUBBER	MS-303	VT3H	19860331
	G306	RIGID	CRD-201	VT3H	19860328
	G500	RIGID	CRD-201	VT3H	19860328

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
IWF	G613	RIGID	CRD-201	VT3H	19860328
	G319	RIGID	CRD-201	VT3H	19860328
	G323	RIGID	CRD-201	VT3H	19860328
	G501	RIGID	CRD-201	VT3H	19860328
	G513	RIGID	CRD-201	VT3H	19860328
	G327	RIGID	CRD-201	VT3H	19860328
	G503	RIGID	CRD-201	VT3H	19860328
	G333	RIGID	CRD-201	VT3H	19860328
	G339	RIGID	CRD-201	VT3H	19860328
	G504	RIGID	CRD-201	VT3H	19860328
	G519	RIGID	CRD-201	VT3H	19860328
	G506	RIGID	CRD-201	VT3H	19860328
	SDV-A(CS)	SDV BASE	CRD-201	VT3H	19860328
	G601	RIGID	CRD-202	VT3H	19860328
	G603	RIGID	CRD-202	VT3H	19860328
	G432	RIGID	CRD-202	VT3H	19860328
	G426	RIGID	CRD-202	VT3H	19860328
	G604	RIGID	CRD-202	VT3H	19860328
	G605	RIGID	CRD-202	VT3H	19860328
	G422	RIGID	CRD-202	VT3H	19860328
	G606	RIGID	CRD-202	VT3H	19860328
	G418	RIGID	CRD-202	VT3H	19860328
	G600	RIGID	CRD-202	VT3H	19860328
	G607	RIGID	CRD-202	VT3H	19860328
	G406	RIGID	CRD-202	VT3H	19860328
	G608	RIGID	CRD-202	VT3H	19860328
	SDV-B(CS)	SDV BASE	CRD-202	VT3H	19860328
	SLC-4475-120	PSA-1 SNUBBER	SLC-101	VT3H	19860331
	SLC-4475-122	PSA-1/4 SNUBBER	SLC-101	VT3H	19860331
	SLC-TK-1(CS)	SLC TK SUPPORT	SLC-101	VT3H	19860401

COUNT = 202

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGES M3 AND RF86A BY CATEGORY

CODE CATEGORY	IDENT. NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/D)
N/A	CORE SPRAY SPARGERS	CORE SPRAY SPG	RPV-101	VT-1	19860512
	STM/DRY SUPPORT	AUGMT RPV INTR	RPV-101	VT-1	19860512
	UPPER CORE GRID	AUGMT RPV INTR	RPV-101	VT-3	19860512

COUNT = 3

TOTAL COUNT = 505

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
CEP-905S PSA-1/2 SNUBBER	4013	19860411	ACC		NO
CEP-907S PSA-1/2 SNUBBER	429	19860421	ACC		NO
DE-2836-15 PSA-1/2 SNUBBER	2148	19860423	ACC		NO
DE-2837-17 PSA-1/4 SNUBBER	6214	19860422	ACC		NO
DE-2838-18 PSA-1/4 SNUBBER	434	19860422	ACC		NO
DE-2839-14B PSA-1/4 SNUBBER	399	19860423	ACC		YES
EDR-903N SOUTH PSA-1/2 SN(2)	4003	19860416	ACC		NO
EDR-903N NORTH PSA-1/2 SN(2)	2128	19860417	ACC		NO
EDR-904N PSA-1/4 SNUBBER	28431	19860416	ACC		NO
EDR-906N PSA-1/4 SNUBBER	28439	19860414	ACC		NO
FDR-901N PSA-1/4 SNUBBER	293	19860417	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
FDR-903N EAST					
PSA-3 SN(2)	4429	19860408	ACC		NO
FPC-228 SOUTH					
PSA-1/2 SN(2)	2107	19860421	REJ	390	N/A
FPC-228 SOUTH					
PSA-1/2 SN(2)	390	19860516	ACC		YES
FPC-228 NORTH					
PSA-1/2 SN(2)	4029	19860421	REJ	2463	N/A
FPC-228 NORTH					
PSA-1/2 SN(2)	2463	19860516	ACC		YES
HY-4235-110					
PSA-1/4 SNUBBER	28429	19860417	ACC		NO
HY-4236-110					
PSA-1/4 SNUBBER	28430	19860416	ACC		NO
HY-4237-110					
PSA-1/4 SNUBBER	381	19860416	ACC		NO
MD-1285-11B					
PSA-1/4 SNUBBER	307	19860422	ACC		NO
MD-1285-14A					
PSA-1/2 SNUBBER	4011	19860422	ACC		NO
MD-1285-14C					
PSA-1/4 SNUBBER	19886	19860419	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
MD-1285-14D PSA-1/2 SNUBBER	4047	19860422	ACC		NO
MD-1287-11 PSA-1/4 SNUBBER	302	19860422	REJ	379	N/A
MD-1287-11 PSA-1/4 SNUBBER	379	19860426	ACC		YES
MD-1288-18 PSA-1/4 SNUBBER	287	19860422	ACC		NO
MD-1290-11B PSA-1/4 SNUBBER	380	19860422	REJ	378	N/A
MD-1290-11B PSA-1/4 SNUBBER	378	19860425	ACC		YES
MD-1364-12A PSA-1/4 SNUBBER	19890	19860422	ACC		YES
MS-1007N SOUTH PSA-10 SN(2)	289	19860418	ACC		NO
MS-1011S PSA-1/4 SNUBBER	277	19860411	REJ	DELETED	N/A
MS-1012S PSA-1/4 SNUBBER	314	19860411	REJ	DELETED	N/A
MS-1013S PSA-1/4 SNUBBER	304	19860411	REJ	DELETED	N/A

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
MS-1014S PSA-1/4 SNUBBER	421	19860411	REJ	DELETED	N/A
MS-1015S PSA-1/4 SNUBBER	386	19860411	REJ	DELETED	N/A
MS-1016S PSA-1/4 SNUBBER	428	19860411	REJ	DELETED	N/A
MS-1368-12 PSA-1/2 SNUBBER	2537	19860421	ACC		NO
MS-1368-13 PSA-1/2 SNUBBER	2145	19860421	ACC		NO
MS-1369-12 PSA-1/2 SNUBBER	2154	19860421	ACC		NO
MS-1369-13 PSA-1/2 SNUBBER	2582	19860428	ACC	2147	N/A
MS-1369-13 PSA-1/2 SNUBBER	2147	19860426	ACC		NO
MS-162 TOP PSA-10 SN(2)	325	19860418	ACC		NO
MS-177 SOUTH PSA-3 SN(2)	299	19860409	ACC		NO
MS-2619-11 PSA-1/4 SNUBBER	398	19860417	ACC		YES

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
MS-2619-12					
PSA-1/4 SNUBBER	6226	19860417	ACC		YES
MS-2619-13					
PSA-1 SNUBBER	625	19860412	ACC		NO
MS-2619-14					
PSA-1/2 SNUBBER	4021	19860417	ACC		NO
MS-2619-311					
PSA-1/2 SNUBBER	2524	19860426	REJ	102	N/A
MS-2619-311					
PSA-1/2 SNUBBER	102	19860426	ACC		YES
MS-2619-313					
PSA-1/2 SNUBBER	2469	19860410	ACC		NO
MS-2619-314					
PSA-1/4 SNUBBER	19884	19860426	ACC		NO
MS-2619-316					
PSA-1/4 SNUBBER	28428	19860416	ACC		NO
MS-2619-317					
PSA-1/4 SNUBBER	19881	19860426	ACC		NO
MS-2619-318					
PSA-1/4 SNUBBER	280	19860426	ACC		NO
MS-2619-319					
PSA-1/2 SNUBBER	2536	19860426	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
MS-2619-321					
PSA-1/4 SNUBBER	19878	19860416	ACC		NO
MS-2619-322					
PSA-1/2 SNUBBER	4041	19860418	ACC		NO
MS-2619-42A					
PSA-1/4 SNUBBER	28432	19860418	ACC		NO
MS-2619-42C					
PSA-1/2 SNUBBER	2572	19860418	ACC		NO
MS-2619-45					
PSA-1/4 SNUBBER	28450	19860418	ACC		NO
MS-2619-46					
PSA-1/2 SNUBBER	4005	19860418	ACC		NO
MS-4448-12					
PSA-1/4 SNUBBER	291	19860419	ACC		NO
MS-4448-411					
PSA-1/4 SNUBBER	299	19860412	ACC		YES
MS-4448-413					
PSA-1/4 SNUBBER	318	19860424	ACC		NO
MS-4448-46					
PSA-1/4 SNUBBER	433	19860424	ACC		YES
MS-53 EAST					
PSA-35 SN(2)	3010	19860418	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
MS-998N SOUTH PSA-10 SN(2)	718	19860418	ACC		NO
MS-SB-1 PSA-100 SNUBBER	604	19860422	ACC		NO
MSLC-2821-12 BOTTOM PSA-1/4 SN(2)	376	19860422	ACC		NO
MSLC-2821-12 TOP PSA-1/4 SN(2)	289	19860412	ACC		NO
MSLC-2822-12 PSA-1/2 SNUBBER	2140	19860412	REJ	121	N/A
MSLC-2822-12 PSA-1/2 SNUBBER	121	19860426	ACC		YES
MSRV-1A-3 PSA-10 SNUBBER	11857	19860422	ACC		NO
MSRV-1B-2 PSA-10 SNUBBER	13035	19860421	ACC		NO
MSRV-1C-1 PSA-10 SNUBBER	4870	19860421	ACC		NO
MSRV-1C-7 PSA-10 SNUBBER	681	19860422	ACC		NO
MSRV-1D-1 PSA-10 SNUBBER	9914	19860423	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.	TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
MSRV-2B-3 PSA-35 SNUBBER 10729	19860422	ACC		NO
MSRV-2D-3 PSA-10 SNUBBER 9957	19860421	ACC		NO
MSRV-4C-2 PSA-10 SNUBBER 282	19860422	ACC		NO
MSRV-4C-6 PSA-10 SNUBBER 116	19860421	ACC		NO
MSRV-4D-4 PSA-10 SNUBBER 9941	19860421	ACC		NO
MSRV-5B-5 PSA-10 SNUBBER 684	19860421	ACC		NO
RCIC-100 EAST PSA-1/2 SN(2) 4032	19860428	ACC		NO
RCIC-100 WEST PSA-1/2 SN(2) 4035	19860421	REJ	2464	N/A
RCIC-100 WEST PSA-1/2 SN(2) 2464	19860426	ACC		YES
RCIC-1490-13 PSA-1/2 SNUBBER 2523	19860418	ACC		NO
RCIC-1C-3 PSA-1 SNUBBER 346	19860410	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RCIC-1C-8 PSA-3 SNUBBER	471	19860408	ACC		NO
RCIC-2562-25 PSA-1/2 SNUBBER	2462	19860418	ACC		NO
RCIC-34 PSA-1/2 SNUBBER	4008	19860417	REJ	DELETED	N/A
RCIC-44 PSA-1/2 SNUBBER	4009	19860426	REJ	DELETED	N/A
RCIC-5 WEST PSA-1/2 SN(2)	388	19860417	REJ	2465	N/A
RCIC-5 WEST PSA-1/2 SN(2)	2465	19860516	ACC		YES
RCIC-5 EAST PSA-1/2 SN(2)	2139	19860416	ACC		NO
RCIC-961N PSA-1/4 SNUBBER	6229	19860417	ACC		NO
RCIC-962N PSA-1/2 SNUBBER	2115	19860416	REJ	DELETED	N/A
RCIC-967N EAST PSA-1/4 SN(2)	28427	19860417	ACC		NO
RCIC-967N WEST PSA-1/4 SN(2)	28460	19860416	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RCIC-969S					
PSA-1/2 SNUBBER	2113	19860423	ACC		NO
RCIC-970S					
PSA-1/2 SNUBBER	2528	19860423	ACC		NO
RCIC-975S					
PSA-1/4 SNUBBER	28459	19860423	ACC		YES
RFW-154 SOUTH					
PSA-10 SN(2)	9958	19860421	ACC		NO
RFW-167 SOUTH					
PSA-10 SN(2)	13065	19860421	ACC		NO
RFW-915N					
PSA-10 SNUBBER	1470	19860421	ACC		NO
RHR-142 WEST					
PSA-1 SN(2)	354	19860414	ACC		NO
RHR-150 SOUTH					
PSA-3 SN(2)	656	19860412	ACC		NO
RHR-20					
PSA-1/2 SNUBBER	413	19860418	ACC		NO
RHR-200					
PSA-1/2 SNUBBER	2131	19860421	ACC		NO
RHR-210					
PSA-1/2 SNUBBER	111	19860418	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RHR-214					
PSA-1/2 SNUBBER	2104	19860418	ACC		NO
RHR-2264-11					
PSA-1/4 SNUBBER	28454	19860423	ACC		NO
RHR-2264-21					
PSA-1/4 SNUBBER	19889	19860423	ACC		YES
RHR-2264-22					
PSA-1 SNUBBER	352	19860409	ACC		NO
RHR-23 EAST					
PSA-1/4 SN(2)	6221	19860418	ACC		NO
RHR-23 WEST					
PSA-1/4 SN(2)	305	19860418	ACC		NO
RHR-251					
PSA-3 SNUBBER	2387	19860411	ACC		NO
RHR-276 SOUTH					
PSA-3 SN(2)	2796	19860411	ACC		NO
RHR-290					
PSA-1/2 SNUBBER	362	19860414	ACC		NO
RHR-325					
PSA-1/2 SNUBBER	119	19860421	ACC		NO
RHR-326 EAST					
PSA-1/4 SN(2)	392	19860421	ACC		YES

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RHR-326 WEST					
PSA-1/4 SN(2)	385	19860411	ACC		YES
RHR-333					
PSA-1/2 SNUBBER	2471	19860418	ACC		NO
RHR-334					
PSA-1/4 SNUBBER	6219	19860418	ACC		NO
RHR-355					
PSA-3 SNUBBER	4483	19860411	ACC		NO
RHR-390					
PSA-35 SNUBBER	10569	19860426	ACC		NO
RHR-400					
PSA-1/2 SNUBBER	2130	19860418	REJ	4012	N/A
RHR-400					
PSA-1/2 SNUBBER	4012	19860419	ACC		YES
RHR-401 BOTTOM					
PSA-1/2 SN(2)	4006	19860416	ACC		NO
RHR-401 TOP					
PSA-1/2 SN(2)	123	19860418	ACC		NO
RHR-414 SOUTH					
PSA-3 SN(2)	2586	19860412	ACC		NO
RHR-441					
PSA-1/2 SNUBBER	2152	19860411	REJ	4034	N/A

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RHR-441 PSA-1/2 SNUBBER	4034	19860411	ACC		YES
RHR-442 PSA-1/2 SNUBBER	2088	19860421	ACC		NO
RHR-443 PSA-1/2 SNUBBER	2156	19860421	ACC		YES
RHR-448 PSA-1/2 SNUBBER	4019	19860419	ACC		NO
RHR-449 SOUTH PSA-1/2 SN(2)	2534	19860416	ACC		NO
RHR-449 NORTH PSA-1/2 SN(2)	2532	19860419	ACC		NO
RHR-453 PSA-1/4 SNUBBER	6210	19860418	ACC		NO
RHR-454 PSA-1/2 SNUBBER	2118	19860418	ACC		NO
RHR-4605-41A PSA-1/4 SNUBBER	419	19860418	REJ	6211	N/A
RHR-4605-41A PSA-1/4 SNUBBER	6211	19860419	ACC		YES
RHR-548 EAST PSA-3 SN(2)	630	19860411	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RHR-551 EAST					
PSA-3 SN(2)	3940	19860411	ACC		NO
RHR-564					
PSA-3 SNUBBER	4500	19860411	ACC		NO
RHR-983N					
PSA-1/2 SNUBBER	2141	19860416	ACC		NO
RHR-SA-39 TOP					
PSA-10 SN(2)	4856	19860423	ACC		NO
RHR-SB-30					
PSA-10 SNUBBER	9936	19860422	ACC		NO
RRC-1549-62					
PSA-1/4 SNUBBER	28437	19860426	ACC		NO
RRC-1552-12					
PSA-1/4 SNUBBER	28458	19860423	REJ	300	N/A
RRC-1552-12					
PSA-1/4 SNUBBER	300	19860425	ACC		YES
RRC-1946-31					
PSA-1/4 SNUBBER	6232	19860418	ACC	396	N/A
RRC-1946-31					
PSA-1/4 SNUBBER	396	19860426	ACC		YES
RRC-1946-32					
PSA-1/4 SNUBBER	6212	19860423	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RRC-1C-10 PSA-1 SNUBBER	22372	19860409	ACC		NO
RRC-1C-15 PSA-1 SNUBBER	335	19860419	ACC		NO
RRC-1C-4 SOUTH PSA-1/2 SN(2)	2121	19860424	ACC		NO
RRC-1C-4 NORTH PSA-1/2 SN(2)	2099	19860424	ACC		NO
RRC-1C-900N BOTTOM PSA-1 SN(2)	617	19860409	ACC		NO
RRC-SA-6 PSA-100 SNUBBER	620	19860422	ACC		NO
RRC-SA-7 PSA-35 SNUBBER	4192	19860423	ACC		NO
RRC-SA-9 PSA-35 SNUBBER	4165	19860419	ACC		NO
RRC-SB-66 PSA-35 SNUBBER	4168	19860423	ACC		NO
RWCU-1C-2 PSA-1 SNUBBER	387	19860410	ACC		NO
SGT-23 TOP PSA-3 SN(2)	4487	19860408	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
SLC-4453-68					
PSA-1/4 SNUBBER	6209	19860417	ACC		NO
SLC-4453-69					
PSA-1/4 SNUBBER	294	19860417	ACC		NO
SLC-4475-112					
PSA-1/4 SNUBBER	6224	19860424	ACC		NO
SLC-4475-113					
PSA-1/2 SNUBBER	4026	19860424	ACC		NO
SLC-4475-114					
PSA-1/4 SNUBBER	384	19860410	ACC		NO
SLC-4475-117					
PSA-1/2 SNUBBER	2100	19860424	ACC		NO
SLC-4475-12					
PSA-1/4 SNUBBER	311	19860419	ACC		NO
SLC-4475-122					
PSA-1/4 SNUBBER	424	19860421	REJ	28441	N/A
SLC-4475-122					
PSA-1/4 SNUBBER	28441	19860419	ACC		YES
SLC-4475-13					
PSA-1/2 SNUBBER	2155	19860423	ACC		NO
SLC-4475-14					
PSA-1/2 SNUBBER	2138	19860423	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
SLC-4475-19 PSA-1/2 SNUBBER	2480	19860419	ACC		YES
SW-937N SOUTH PSA-10 SN(2)	3039	19860422	ACC		NO
VR-3 WEST PSA-1/2 SN(2)	2151	19860416	ACC		NO
VR-3 EAST PSA-1/2 SN(2)	422	19860418	ACC		NO
VR-900N PSA-1/2 SNUBBER	2112	19860416	ACC		NO
VR-901N PSA-1/2 SNUBBER	4024	19860417	ACC		NO
VR-902N PSA-1/2 SNUBBER	4038	19860417	ACC		NO

TOTAL COUNT = 183

APPENDIX A

NIS-1 Owner's Data Report for Inservice Inspection

FORM NIS-1 OWNERS' 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, P.O. Box 968, Richland, Washington 99352
(Name and Address of Owner)

2. Plant WNP-2, Hanford Reservation, Benton County, Washington
(Name and Address of Plant)

3. Plant Unit WNP-2 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 12/13/84 6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
RPV	CBIN Nuclear Co.	T-45	29936-84W	CBIN-8
RRC-P-1B	Bingham-Willamette	210100 (1)	N/A	135
MS-V-22B	Rockwell Manuf. Co.	JT-37	N/A	69
RFW-V-10A	Anchor/Darling Valve Co.	IN-260	N/A	N/A
RFW-V-10B	Anchor/Darling Valve Co.	IN-257	N/A	N/A
RFW-V-32A	Anchor/Darling Valve Co.	IN-109	N/A	N/A
RFW-V-32B	Anchor/Darling Valve Co.	IN-110	N/A	N/A
RFW-V-65A	Velan	0003	N/A	N/A
Lg. Bore Pipe	Bechtel	(2)	N/A	N/A
Notes: (1)	Installers number.			
(2)	The piping examined is included on Page 3 through Page 18 of			
	this NIS-1 form.			

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (back)

8. Examination Dates 1/19/85 to 6/12/86 9. Inspection Interval from 12/13/84 to 12/13/94

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Approximately 10% of the examinations required for this inspection interval are complete. See pages 3 through 18 for examination list.

11. Abstract of Conditions Noted. No significant indications were found using ultrasonic, dye penetrant or magnetic particle methods. Visual examination during code category *

12. Abstract of Corrective Measures Recommended and Taken

The two bolted connections were repaired and retested. There was no evidence of leakage.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date August 11 19 86 Signed [illegible] By _____
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

CERTIFICATE OF INSERVICE 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 WASHINGTON and employed by Lumbermens Mutual Casualty Co of Long Beach, Ill have inspected the components described in this Owners' Data Report during the period 1/19/85 to 6/12/86, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data 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 Owners' 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 8/11 19 86

Charles D Roberts Commissions 5470 W
Inspector's Signature National Board, State, Province and No.

* B-P leakage test found two bolted connections leaking.

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-D	N4-30-IR	FW NZ-IR @ 30	B3.100	VOL	RPV-101
	N4-30-NB	FW NZ BORE @ 30	B3.100	VOL	RPV-101
B-E	N12	VESS INST PENT	B4.13	VT-2	RPV-101
	N13	VESS INST PENT	B4.13	VT-2	RPV-101
	N14	VESS INST PENT	B4.13	VT-2	RPV-101
	N17	FLG SEAL LK PEN	34.13	VT-2	RPV-101
	N11	SLC BTM HD PEN	B4.11	VT-2	RPV-102
	N15	BTM HD DRAIN	B4.11	VT-2	RPV-102
	CRD	CRD PEN (185EA)	B4.12	VT-2	RPV-102
	INCORE	INCOR PEN(55EA)	34.11	VT-2	RPV-102
B-F	12RFW(1)AC-11	SE/EX-SE/STUB	B5.10	VOL	RFW-101
	12RFW(1)AC-11	SE/EX-SE/STUB	B5.10	SUR	RFW-101
	12RFW(1)AC-12	SE/STUB TO SE	B5.10	VOL	RFW-101
	12RFW(1)AC-12	SE/STUB TO SE	35.10	SUR	RFW-101
	12RFW(1)AC-13	SE / N4	B5.10	VOL	RFW-101
	12RFW(1)AC-13	SE / N4	B5.10	SUR	RFW-101
	4RRC(4)A-11	SE TO VALVE	B5.10	VOL	RRC-108
	4RRC(4)B-12	SE TO VALVE	B5.10	VOL	RRC-109
B-G-1	RRC-P-1B-BLT	PUMP BOLTING	B6.180	VOL	RRC-103
	RRC-P-1B-BLT	PUMP BOLTING	B6.200	VT-1	RRC-103
	RRC-P-1B-BLT	PUMP BOLTING	B6.190	VT-1	RRC-103
B-G-2	CRD HOUSING BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
B-J	10RCIC(12)-1	SWL TO PIPE	B9.11	VOL	RCIC-101
	10RCIC(12)-2	PIPE TO EL	B9.11	VOL	RCIC-101
	10RCIC(12)-2	PIPE TO EL	B9.11	SUR	RCIC-101
	10RCIC(12)-3	EL TO PIPE	B9.11	VOL	RCIC-101
	10RCIC(12)-3	EL TO PIPE	B9.11	SUR	RCIC-101
	10RCIC(12)-4	PIPE TO VLV	B9.11	VOL	RCIC-101

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J	6RCIC(1)-12	PIPE TO VLV	B9.11	VOL	RCIC-102
	6RCIC(1)-12	PIPE TO VLV	B9.11	SUR	RCIC-102
	12HPCS(1)-6LUO	EL SEAM	B9.12	VOL	HPCS-101
	12HPCS(1)-6LUO	EL SEAM	B9.12	SUR	HPCS-101
	12HPCS(1)-6LUI	EL SEAM	B9.12	VOL	HPCS-101
	12HPCS(1)-6LUI	EL SEAM	B9.12	SUR	HPCS-101
	12HPCS(1)-6	EL TO PIPE	B9.11	VOL	HPCS-101
	12HPCS(1)-6	EL TO PIPE	B9.11	SUR	HPCS-101
	12HPCS(1)-7	PIPE TO EL	B9.11	VOL	HPCS-101
	12HPCS(1)-7	PIPE TO EL	B9.11	SUR	HPCS-101
	12LPCS(1)-21	PIPE TO VLV	B9.11	VOL	LPCS-101
	12LPCS(1)-21	PIPE TO VLV	B9.11	SUR	LPCS-101
	12LPCS(1)-22	VLV TO PIPE	B9.11	VOL	LPCS-101
	12LPCS(1)-22	VLV TO PIPE	B9.11	SUR	LPCS-101
	12LPCS(1)-23	PIPE TO EL	B9.11	VOL	LPCS-101
	12LPCS(1)-23	PIPE TO EL	B9.11	SUR	LPCS-101
	14LPCI(1)A-1	VLV TO PIPE	B9.11	VOL	RHR-101
	14LPCI(1)A-1	VLV TO PIPE	B9.11	SUR	RHR-101
	14LPCI(1)A-2	PIPE TO EL	B9.11	VOL	RHR-101
	14LPCI(1)A-2	PIPE TO EL	B9.11	SUR	RHR-101
	14LPCI(1)B-16	VALVE TO PIPE	B9.11	VOL	RHR-102
	14LPCI(1)B-16	VALVE TO PIPE	B9.11	SUR	RHR-102
	14LPCI(1)B-17	PIPE TO EL	B9.11	VOL	RHR-102
	14LPCI(1)B-17	PIPE TO EL	B9.11	SUR	RHR-102
	14LPCI(1)C-24	EL TO PIPE	B9.11	VOL	RHR-103
	14LPCI(1)C-24	EL TO PIPE	B9.11	SUR	RHR-103
	14LPCI(1)C-25	PIPE TO REDUCER	B9.11	VOL	RHR-103
	14LPCI(1)C-25	PIPE TO REDUCER	B9.11	SUR	RHR-103
	20RHR(2)-11	EL TO PIPE	B9.11	VOL	RHR-104
	20RHR(2)-11	EL TO PIPE	B9.11	SUR	RHR-104
	20RHR(2)-12	PIPE TO PEN	B9.11	VOL	RHR-104
	20RHR(2)-12	PIPE TO PEN	B9.11	SUR	RHR-104
	12RHR(1)A-11	PIPE TO EL	B9.11	VOL	RHR-105

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J	12RHR(1)A-11	PIPE TO EL	B9.11	SUR	RHR-105
	26MS(1)A-3	PIPE TO EL	B9.11	VOL	MS-101
	26MS(1)A-3	PIPE TO EL	B9.11	SUR	MS-101
	26MS(1)A-3LDI	EL SEAM	B9.12	VOL	MS-101
	26MS(1)A-3LDI	EL SEAM	B9.12	SUR	MS-101
	26MS(1)A-3LDO	EL SEAM	B9.12	VOL	MS-101
	26MS(1)A-3LDO	EL SEAM	B9.12	SUR	MS-101
	26MS(1)A-4LUI	EL SEAM	B9.12	VOL	MS-101
	26MS(1)A-4LUI	EL SEAM	B9.12	SUR	MS-101
	26MS(1)A-4LUO	EL SEAM	B9.12	VOL	MS-101
	26MS(1)A-4LUO	EL SEAM	B9.12	SUR	MS-101
	26MS(1)A-4	EL TO PIPE	B9.11	VOL	MS-101
	26MS(1)A-4	EL TO PIPE	B9.11	SUR	MS-101
	26MS(1)A-4/2MS(12)-4	HEAD VENT CONN	B9.32	SUR	MS-101
	26MS(1)A-6	PIPE TO EL	B9.11	VOL	MS-101
	26MS(1)A-6	PIPE TO EL	B9.11	SUR	MS-101
	26MS(1)A-7/8MSR-2A	PIPE TO SWL	B9.31	VOL	MS-101
	26MS(1)A-7/8MSR-2A	PIPE TO SWL	B9.31	SUR	MS-101
	26MS(1)A-7/8MSR-1A	PIPE TO SWL	B9.31	VOL	MS-101
	26MS(1)A-7/8MSR-1A	PIPE TO SWL	B9.31	SUR	MS-101
	26MS(1)A-15	PIPE TO VALVE	B9.11	VOL	MS-101
	26MS(1)A-15	PIPE TO VALVE	B9.11	SUR	MS-101
	26MS(1)A-16	VALVE TO PENE	B9.11	VOL	MS-101
	26MS(1)A-16	VALVE TO PENE	B9.11	SUR	MS-101
	26MS(1)A-17	PENE TO VALVE	B9.11	VOL	MS-101
	26MS(1)A-17	PENE TO VALVE	B9.11	SUR	MS-101
	MS-V-28A/2MS(9)-4	DRAIN CONN	B9.32	SUR	MS-101
	24RFW(1)A-1	VALVE TO PIPE	B9.11	VOL	RFW-101
	24RFW(1)A-1	VALVE TO PIPE	B9.11	SUR	RFW-101
	24RFW(1)A-1/5RFW(11)-4	PIPE TO WOL	B9.31	VOL	RFW-101
	24RFW(1)A-1/5RFW(11)-4	PIPE TO WOL	B9.31	SUR	RFW-101
	24RFW(1)A-15	PIPE TO TEE	B9.11	VOL	RFW-101
	24RFW(1)A-15	PIPE TO TEE	B9.11	SUR	RFW-101

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J	12RFW(1)AC-6	PIPE TO EL	B9.11	VOL	RFW-101
	12RFW(1)AC-6	PIPE TO EL	B9.11	SUR	RFW-101
	12RFW(1)AC-7	EL TO PIPE	B9.11	VOL	RFW-101
	12RFW(1)AC-7	EL TO PIPE	B9.11	SUR	RFW-101
	12RFW(1)AC-8	PIPE TO EL	B9.11	VOL	RFW-101
	12RFW(1)AC-8	PIPE TO EL	B9.11	SUR	RFW-101
	12RFW(1)AC-9	EL TO PIPE	B9.11	VOL	RFW-101
	12RFW(1)AC-9	EL TO PIPE	B9.11	SUR	RFW-101
	12RFW(1)AC-10	PIPE-SE EXT	B9.11	VOL	RFW-101
	12RFW(1)AC-10	PIPE-SE EXT	B9.11	SUR	RFW-101
	24RFW(1)B-6	PIPE TO EL	B9.11	VOL	RFW-102
	24RFW(1)B-6	PIPE TO EL	B9.11	SUR	RFW-102
	24RFW(1)B-6LDO	EL SEAM	B9.12	VOL	RFW-102
	24RFW(1)B-6LDO	EL SEAM	B9.12	SUR	RFW-102
	24RFW(1)B-6LDI	EL SEAM	B9.12	VOL	RFW-102
	24RFW(1)B-6LDI	EL SEAM	B9.12	SUR	RFW-102
	24RFW(1)B-7LUI	EL SEAM	B9.12	VOL	RFW-102
	24RFW(1)B-7LUI	EL SEAM	B9.12	SUR	RFW-102
	24RFW(1)B-7LUO	EL SEAM	B9.12	VOL	RFW-102
	24RFW(1)B-7LUO	EL SEAM	B9.12	SUR	RFW-102
	24RFW(1)B-7	EL TO PIPE	B9.11	VOL	RFW-102
	24RFW(1)B-7	EL TO PIPE	B9.11	SUR	RFW-102
	12RFW(1)BD-1	REDUCER TO PIPE	B9.11	VOL	RFW-102
	12RFW(1)BD-1	REDUCER TO PIPE	B9.11	SUR	RFW-102
	12RFW(1)BD-2	PIPE TO EL	B9.11	VOL	RFW-102
	12RFW(1)BD-2	PIPE TO EL	B9.11	SUR	RFW-102
	12RFW(1)BD-3	EL TO PIPE	B9.11	VOL	RFW-102
	12RFW(1)BD-3	EL TO PIPE	B9.11	SUR	RFW-102
	6RFW(11)-1	VALVE TO PIPE	B9.11	VOL	RFW-103
	6RFW(11)-1	VALVE TO PIPE	B9.11	SUR	RFW-103
	6RFW(11)-2	PIPE TO EL	B9.11	VOL	RFW-103
	6RFW(11)-2	PIPE TO EL	B9.11	SUR	RFW-103
	24RRC(2)A-10/4RRC(8)-4S	PIPE TO SWL	B9.31	VOL	RRC-101

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J	24RRC(2)A-10/4RRC(4)-4S	PIPE TO SWL	B9.31	VOL	RRC-101
	24RRC(1)A-13/8CAP	PIPE TO SWL	B9.31	VOL	RRC-101
	24RRC(1)A-13/4RRC(8)-4S	PIPE TO SWL	B9.31	VOL	RRC-101
	24RRC(1)A-13/4RRC(8)-4S	PIPE TO SWL	B9.31	SUR	RRC-101
	24RRC(1)A-20/12RRC(7)-4S	PIPE TO SWL	B9.31	VOL	RRC-101
	24RRC(1)A-20/12CAP	PIPE TO SWL	B9.31	VOL	RRC-101
	24RRC(1)A-20/12CAP	PIPE TO SWL	B9.31	SUR	RRC-101
	24RRC(2)B-8/4RRC(8)-4S	PIPE TO SWL	B9.31	VOL	RRC-102
	24RRC(2)B-8/4RRC(4)-4S	PIPE TO SWL	B9.31	VOL	RRC-102
	24RRC(1)B-11/8CAP	PIPE TO SWL	B9.31	VOL	RRC-102
	24RRC(1)B-11/4RRC(8)-4S	PIPE TO SWL	B9.31	VOL	RRC-102
	24RRC(1)B-18/12RRC(7)-4S	PIPE TO SWL	B9.31	VOL	RRC-102
	24RRC(1)B-18/12CAP	PIPE TO SWL	B9.31	VOL	RRC-102
	4RRC(51)-6	PIPE TO VALVE	B9.11	VOL	RRC-104
	4RRC(51)-6	PIPE TO VALVE	B9.11	SUR	RRC-104
	4RRC(4)A-1	SOL TO PIPE	B9.11	VOL	RRC-108
	4RRC(4)A-1	SOL TO PIPE	B9.11	SUR	RRC-108
	4RRC(4)A-2	PIPE TO TEE	B9.11	VOL	RRC-108
	4RRC(4)A-3	PIPE TO REDUCER	B9.11	VOL	RRC-108
	4RRC(4)A-4	PIPE TO TEE	B9.11	VOL	RRC-108
	4RRC(4)A-5	TEE TO PIPE	B9.11	VOL	RRC-108
	4RRC(4)A-5	TEE TO PIPE	B9.11	SUR	RRC-108
	4RRC(4)A-6	PIPE TO EL	B9.11	VOL	RRC-108
	4RRC(4)A-7	EL TO PIPE	B9.11	VOL	RRC-108
	4RRC(4)A-8	PIPE TO EL	B9.11	VOL	RRC-108
	4RRC(4)A-9	EL TO PIPE	B9.11	VOL	RRC-108
	4RRC(4)A-10	PIPE - VALVE SE	B9.11	VOL	RRC-108
	4RRC(4)B-1	SWL TO PIPE	B9.11	VOL	RRC-109
	4RRC(4)B-2	PIPE TO TEE	B9.11	VOL	RRC-109
	4RRC(4)B-3	PIPE TO REDUCER	B9.11	VOL	RRC-109
	4RRC(4)B-4	PIPE TO TEE	B9.11	VOL	RRC-109
	4RRC(4)B-5	TEE TO PIPE	B9.11	VOL	RRC-109
	4RRC(4)B-6	PIPE TO EL	B9.11	VOL	RRC-109

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J	4RRC(4)B-7	EL TO PIPE	B9.11	VOL	RRC-109
	4RRC(4)B-8	PIPE TO PIPE	B9.11	VOL	RRC-109
	4RRC(4)B-9	PIPE TO EL	B9.11	VOL	RRC-109
	4RRC(4)B-9	PIPE TO EL	B9.11	SUR	RRC-109
	4RRC(4)B-10	EL TO PIPE	B9.11	VOL	RRC-109
	4RRC(4)B-11	PIPE - VALVE SE	B9.11	VOL	RRC-109
	4RRC(4)B-11	PIPE - VALVE SE	B9.11	SUR	RRC-109
	2RRC(6)A-1	REDUCER TO EL	B9.21	SUR	RRC-110
	2RRC(6)A-2	EL TO PIPE	B9.21	SUR	RRC-110
	2RRC(6)B-1	REDUCER TO EL	B9.21	SUR	RRC-111
	2RRC(6)B-3	EL TO PIPE	B9.21	SUR	RRC-111
	6RWCU(3)-27	PIPE TO VALVE	B9.11	VOL	RWCU-101
	6RWCU(3)-27	PIPE TO VALVE	B9.11	SUR	RWCU-101
B-K-1	RHR-SB-34(W)	8 WELDED LUGS	B10.10	SUR	RHR-106
	MS-HA-1(W)	4 WELDED LUGS	B10.10	SUR	MS-101
	RFW-182(W)	6 WELDED LUGS	B10.10	SUR	RFW-102
	RFW-175(W)	6 WELDED LUGS	B10.10	SUR	RFW-102
	RRC-RB-1(W)	1 WELDED LUG	B10.20	SUR	RRC-103
B-L-2	RRC-P-1B-BDY	PUMP BODY	B12.20	VT-3	RRC-103
B-M-2	MS-V-22B-BDY	VALVE BODY	B12.40	VT-3	MS-102
	RFW-V-65A-BDY	VALVE BODY	B12.40	VT-3	RFW-101
	RFW-V-32A-BDY	VALVE BODY	B12.40	VT-3	RFW-101
	RFW-V-10A-BDY	VALVE BODY	B12.40	VT-3	RFW-101
	RFW-V-32B-BDY	VALVE BODY	B12.40	VT-3	RFW-102
	RFW-V-10B-BDY	VALVE BODY	B12.40	VT-3	RFW-102
B-N-1	RPV INTERIOR	RPV INTERIOR	B13.10	VT-3	RPV-101
B-P	RPV-PB-101(L)	LK PRES BNDRY	B15.10	VT-2	RPV-101
	RPV-PB-102(L)	LK PRES BNDRY	B15.10	VT-2	RPV-102

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-P	RCIC-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	RCIC-101
	RCIC-PB-102(L)	LK PRES BNDRY	B15.50	VT-2	RCIC-102
	HPCS-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	HPCS-101
	LPCS-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	LPCS-101
	RHR-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	RHR-101
	RHR-PB-102(L)	LK PRES BNDRY	B15.50	VT-2	RHR-102
	RHR-PB-103(L)	LK PRES BNDRY	B15.50	VT-2	RHR-103
	RHR-PB-104(L)	LK PRES BNDRY	B15.50	VT-2	RHR-104
	RHR-PB-105(L)	LK PRES BNDRY	B15.50	VT-2	RHR-105
	RHR-PB-106(L)	LK PRES BNDRY	B15.50	VT-2	RHR-106
	MS-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	MS-101
	MS-PB-102(L)	LK PRES BNDRY	B15.50	VT-2	MS-102
	MS-PB-103(L)	LK PRES BNDRY	B15.50	VT-2	MS-103
	MS-PB-104(L)	LK PRES BNDRY	B15.50	VT-2	MS-104
	MS-PB-105(L)	LK PRES BNDRY	B15.50	VT-2	MS-105
	MS-PB-106(L)	LK PRES BNDRY	B15.50	VT-2	MS-106
	RFW-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	RFW-101
	RFW-PB-102(L)	LK PRES BNDRY	B15.50	VT-2	RFW-102
	RFW-PB-103(L)	LK PRES BNDRY	B15.50	VT-2	RFW-103
	RRC-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	RRC-101
	RRC-PB-102(L)	LK PRES BNDRY	B15.50	VT-2	RRC-102
	RRC-PB-103(L)	LK PRES BNDRY	B15.50	VT-2	RRC-103
	RRC-PB-104(L)	LK PRES BNDRY	B15.50	VT-2	RRC-104
	RRC-PB-105(L)	LK PRES BNDRY	B15.50	VT-2	RRC-105
	RRC-PB-106(L)	LK PRES BNDRY	B15.50	VT-2	RRC-106
	RRC-PB-107(L)	LK PRES BNDRY	B15.50	VT-2	RRC-107
	RRC-PB-108(L)	LK PRES BNDRY	B15.50	VT-2	RRC-108
	RRC-PB-109(L)	LK PRES BNDRY	B15.50	VT-2	RRC-109
	RRC-PB-110(L)	LK PRES BNDRY	B15.50	VT-2	RRC-110
	RRC-PB-111(L)	LK PRES BNDRY	B15.50	VT-2	RRC-111
	RWCU-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	RWCU-101
	SLC-PB-101(L)	LK PRESS BNDRY	B15.50	VT-2	SLC-101

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
C-C	RHR-157(W)	4 WELDED LUGS	C3.40	SUR	RHR-201
	RHR-238(W)	2 WELDED SADDLE	C3.40	SUR	RHR-201
	RHR-948N(W)	2 WELDED SADDLE	C3.40	SUR	RHR-203
	MS-114(W)	8 WELDED LUGS	C3.40	SUR	MS-201
	MS-89(W)	4 WELDED LUGS	C3.40	SUR	MS-201
	MS-147(W)	8 WELDED LUGS	C3.40	SUR	MS-202
C-F-2	14RHR(1)A-2	PIPE TO EL	C5.51	SUR	RHR-201
	14RHR(1)A-2	PIPE TO EL	C5.51	VOL	RHR-201
	14RHR(1)A-3	EL TO PIPE	C5.51	SUR	RHR-201
	14RHR(1)A-3	EL TO PIPE	C5.51	VOL	RHR-201
	18RHR(1)A-1	REDUCER TO PIPE	C5.51	SUR	RHR-201
	18RHR(1)A-1	REDUCER TO PIPE	C5.51	VOL	RHR-201
	18RHR(1)A-8	PIPE TO TEE	C5.51	SUR	RHR-201
	18RHR(1)A-8	PIPE TO TEE	C5.51	VOL	RHR-201
	18RHR(1)A-24	EL TO PIPE	C5.51	SUR	RHR-201
	18RHR(1)A-24	EL TO PIPE	C5.51	VOL	RHR-201
	18RHR(1)A-25	PIPE TO EL	C5.51	SUR	RHR-201
	18RHR(1)A-25	PIPE TO EL	C5.51	VOL	RHR-201
	18RHR(1)A-30	EL TO PIPE	C5.51	SUR	RHR-201
	18RHR(1)A-30	EL TO PIPE	C5.51	VOL	RHR-201
	26MS(1)A-18	VALVE TO PIPE	C5.51	VOL	MS-201
	26MS(1)A-18	VALVE TO PIPE	C5.51	SUR	MS-201
	26MS(1)A-18LD	PIPE LONG SEAM	C5.52	VOL	MS-201
	26MS(1)A-18LD	PIPE LONG SEAM	C5.52	SUR	MS-201
	26MS(1)A-19LU	PIPE LONG SEAM	C5.52	VOL	MS-201
	26MS(1)A-19LU	PIPE LONG SEAM	C5.52	SUR	MS-201
	26MS(1)A-19	PIPE TO PIPE	C5.51	VOL	MS-201
	26MS(1)A-19	PIPE TO PIPE	C5.51	SUR	MS-201
	26MS(1)A-19LD	PIPE LONG SEAM	C5.52	VOL	MS-201
	26MS(1)A-19LD	PIPE LONG SEAM	C5.52	SUR	MS-201
	30MS(1)A-8LUI	EL SEAM	C5.52	VOL	MS-201
	30MS(1)A-8LUI	EL SEAM	C5.52	SUR	MS-201

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
C-F-2	30MS(1)A-8LUO	EL SEAM	C5.52	VOL	MS-201
	30MS(1)A-8LUO	EL SEAM	C5.52	SUR	MS-201
	30MS(1)A-8	EL TO PIPE	C5.51	VOL	MS-201
	30MS(1)A-8	EL TO PIPE	C5.51	SUR	MS-201
	30MS(1)A-8LD	PIPE LONG SEAM	C5.52	VOL	MS-201
	30MS(1)A-8LD	PIPE LONG SEAM	C5.52	SUR	MS-201
	30MS(1)A-13LUO	EL SEAM	C5.52	VOL	MS-201
	30MS(1)A-13LUO	EL SEAM	C5.52	SUR	MS-201
	30MS(1)A-13	EL TO PIPE	C5.51	VOL	MS-201
	30MS(1)A-13	EL TO PIPE	C5.51	SUR	MS-201
	30MS(1)A-13LD	PIPE LONG SEAM	C5.52	VOL	MS-201
	30MS(1)A-13LD	PIPE LONG SEAM	C5.52	SUR	MS-201
	30MS(1)B-19LU	PIPE LONG SEAM	C5.52	VOL	MS-202
	30MS(1)B-19LU	PIPE LONG SEAM	C5.52	SUR	MS-202
	30MS(1)B-19	PIPE TO EL	C5.51	VOL	MS-202
	30MS(1)B-19	PIPE TO EL	C5.51	SUR	MS-202
	30MS(1)B-19LDO	EL SEAM	C5.52	VOL	MS-202
	30MS(1)B-19LDO	EL SEAM	C5.52	SUR	MS-202
	30MS(1)B-20LUO	EL SEAM	C5.52	VOL	MS-202
	30MS(1)B-20LUO	EL SEAM	C5.52	SUR	MS-202
	30MS(1)B-20	EL TO PIPE	C5.51	VOL	MS-202
	30MS(1)B-20	EL TO PIPE	C5.51	SUR	MS-202
	30MS(1)B-20LD	PIPE LONG SEAM	C5.52	VOL	MS-202
	30MS(1)B-20LD	PIPE LONG SEAM	C5.52	SUR	MS-202
	30MS(1)B-24/6MS(1)-4	WOL TO PIPE	C5.81	SUR	MS-202
	6MS(1)B-1	PIPE TO WOL	C5.51	SUR	MS-202
	6MS(1)B-1	PIPE TO WOL	C5.51	VOL	MS-202
	6MS(1)B-2	CAP TO PIPE	C5.51	SUR	MS-202
	6MS(1)B-2	CAP TO PIPE	C5.51	VOL	MS-202
	30MS(1)B-27LU	PIPE LONG SEAM	C5.52	VOL	MS-202
	30MS(1)B-27LU	PIPE LONG SEAM	C5.52	SUR	MS-202
	30MS(1)B-27	PIPE TO EL	C5.51	VOL	MS-202
	30MS(1)B-27	PIPE TO EL	C5.51	SUR	MS-202

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
C-F-2	30MS(1)B-27LDO	EL SEAM	C5.52	VOL	MS-202
	30MS(1)B-27LDO	EL SEAM	C5.52	SUR	MS-202
	30MS(1)B-28LUO	EL SEAM	C5.52	VOL	MS-202
	30MS(1)B-28LUO	EL SEAM	C5.52	SUR	MS-202
	30MS(1)B-28	EL TO PIPE	C5.51	VOL	MS-202
	30MS(1)B-28	EL TO PIPE	C5.51	SUR	MS-202
	30MS(1)B-28LD	PIPE LONG SEAM	C5.52	VOL	MS-202
	30MS(1)B-28LD	PIPE LONG SEAM	C5.52	SUR	MS-202
IWF	RPV STAB 45	STABLIZER	F-X	VT3H	RPV-101
	RPV STAB 135	STABLIZER	F-X	VT3H	RPV-101
	RPV STAB 225	STABLIZER	F-X	VT3H	RPV-101
	RPV STAB 315	STABLIZER	F-X	VT3H	RPV-101
	RPV STAB 0	STABLIZER	F-X	VT3H	RPV-101
	RPV STAB 90	STABLIZER	F-X	VT3H	RPV-101
	RPV STAB 180	STABLIZER	F-X	VT3H	RPV-101
	RPV STAB 270	STABLIZER	F-X	VT3H	RPV-101
	RPV(CS)	SKIRT & BAS PLT	F-X	VT3H	RPV-101
	RCIC-75	SPRING	F-X	VT3H	RCIC-101
	RCIC-1C-9	PSA-10 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-1C-10	PSA-3 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-1C-12	PSA-3 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-1C-15	PSA-3 SN(2)	F-X	VT3H	RCIC-101
	RCIC-948N	PSA-3 SN(2)	F-X	VT3H	RCIC-102
	RCIC-937N	PSA-3 SNUBBER	F-X	VT3H	RCIC-102
	RCIC-1	PSA-1 SNUBBER	F-X	VT3H	RCIC-203
	RCIC-2	PSA-1 SNUBBER	F-X	VT3H	RCIC-203
	RCIC-3	SPRING (2)	F-X	VT3H	RCIC-203
	RCIC-P-1(CS)	PUMP BASE	F-X	VT3H	RCIC-204
	RCIC-79	BOX	F-X	VT3H	RCIC-205
	RCIC-80	STRUT	F-X	VT3H	RCIC-205
	RCIC-82	BOX	F-X	VT3H	RCIC-205
	RCIC-83	SPRING	F-X	VT3H	RCIC-205

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
IWF	HPCS-910N	PSA-3 SN(2)	F-X	VT3H	HPCS-101
	HPCS-911N	PSA-10 SNUBBER	F-X	VT3H	HPCS-101
	HPCS-P-1(CS)	PUMP BASE	F-X	VT3H	HPCS-201
	HPCS-44	SPRING	F-X	VT3H	HPCS-202
	HPCS-13	ANCHOR	F-X	VT3H	HPCS-202
	HPCS-15	ANCHOR	F-X	VT3H	HPCS-202
	HPCS-7	ANCHOR	F-X	VT3H	HPCS-205
	LPCS-61	PSA-10 SN(2)	F-X	VT3H	LPCS-101
	LPCS-P-1(CS)	PUMP BASE	F-X	VT3H	LPCS-201
	LPCS-901N	ANCHOR	F-X	VT3H	LPCS-202
	LPCS-18	SPRING	F-X	VT3H	LPCS-202
	LPCS-911N	SPRING	F-X	VT3H	LPCS-205
	RHR-941N	PSA-10 SNUBBER	F-X	VT3H	RHR-101
	RHR-390	PSA-35 SNUBBER	F-X	VT3H	RHR-102
	RHR-78	SPRING	F-X	VT3H	RHR-104
	RHR-SA-37	PSA-35 SNUBBER	F-X	VT3H	RHR-105
	RHR-510	SPRING	F-X	VT3H	RHR-105
	RHR-512	SPRING	F-X	VT3H	RHR-106
	RHR-SB-34	PSA-10 SN(2)	F-X	VT3H	RHR-106
	RHR-157	SPRING	F-X	VT3H	RHR-201
	RHR-599	PSA-3 SNUBBER	F-X	VT3H	RHR-201
	RHR-1000N	PSA-3 SNUBBER	F-X	VT3H	RHR-201
	RHR-1001N	PSA-3 SN(2)	F-X	VT3H	RHR-201
	RHR-238	ANCHOR	F-X	VT3H	RHR-201
	RHR-249	BOX	F-X	VT3H	RHR-202
	RHR-251	PSA-3 SNUBBER	F-X	VT3H	RHR-202
	RHR-948N	PSA-3 SN(2)	F-X	VT3H	RHR-203
	RHR-947N	PSA-3 SN(2)	F-X	VT3H	RHR-203
	RHR-129	STRUT	F-X	VT3H	RHR-206
	RHR-423	SPRING	F-X	VT3H	RHR-206
	RHR-548	PSA-3 SN(2)	F-X	VT3H	RHR-207
	RHR-942N	PSA-1 SN(2)	F-X	VT3H	RHR-207
	RHR-922N	PSA-1 SNUBBER	F-X	VT3H	RHR-207

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
IWF	RHR-945N	PSA-1 SN(2)	F-X	VT3H	RHR-207
	RHR-316	SPRING	F-X	VT3H	RHR-210
	RHR-999N	STRUT	F-X	VT3H	RHR-210
	RHR-297	RIGID	F-X	VT3H	RHR-210
	RHR-140	SPRING	F-X	VT3H	RHR-211
	RHR-49	STRUT	F-X	VT3H	RHR-211
	RHR-990N	BOX	F-X	VT3H	RHR-212
	RHR-P-2A(CS)	RHR PUMP BASE	F-X	VT3H	RHR-213
	RHR-P-2B(CS)	RHR PUMP BASE	F-X	VT3H	RHR-213
	RHR-P-2C(CS)	RHR PUMP BASE	F-X	VT3H	RHR-213
	RHR-HX-1A(CS)	HX BASE	F-X	VT3H	RHR-214
	RHR-HX-1B(CS)	HX BASE	F-X	VT3H	RHR-214
	MS-SA-6	PSA-35 SNUBBER	F-X	VT3H	MS-101
	MS-SA-7	PSA-35 SNUBBER	F-X	VT3H	MS-101
	MS-SA-1	PSA-100 SNUBBER	F-X	VT3H	MS-101
	MS-SA-2	PSA-100 SNUBBER	F-X	VT3H	MS-101
	MS-135	PSA-35 SNUBBER	F-X	VT3H	MS-201
	MS-993N	PSA-10 SN(2)	F-X	VT3H	MS-201
	MS-117	SPRING (2)	F-X	VT3H	MS-201
	MS-114	PSA-10 SN(2)	F-X	VT3H	MS-201
	MS-89	SPRING (2)	F-X	VT3H	MS-201
	MS-176	SPRING	F-X	VT3H	MS-202
	RFW-186	SPRING	F-X	VT3H	RFW-101
	RFW-160	PSA-10 SN(2)	F-X	VT3H	RFW-101
	RFW-154	PSA-10 SN(2)	F-X	VT3H	RFW-101
	RFW-162	PSA-10 SN(2)	F-X	VT3H	RFW-102
	RFW-175	SPRING	F-X	VT3H	RFW-102
	RRC-HB-1	SPRING (2)	F-X	VT3H	RRC-102
	RRC-SB-16	PSA-35 SN(2)	F-X	VT3H	RRC-102
	RRC-SB-7	PSA-35 SNUBBER	F-X	VT3H	RRC-102
	RRC-SB-65	PSA-35 SNUBBER	F-X	VT3H	RRC-102
	RRC-SB-15	PSA-35 SNUBBER	F-X	VT3H	RRC-102
	RRC-SB-3	PSA-100 SNUBBER	F-X	VT3H	RRC-103

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
IWF	RRC-SB-4	PSA-100 SNUBBER	F-X	VT3H	RRC-103
	RRC-SB-5	PSA-100 SNUBBER	F-X	VT3H	RRC-103
	RRC-SB-6	PSA-100 SNUBBER	F-X	VT3H	RRC-103
	RRC-RB-1	STRUT	F-X	VT3H	RRC-103
	RRC-1C-8PS	STRUT	F-X	VT3H	RRC-108
	RWCU-1C-16	PSA-1 SNUBBER	F-X	VT3H	RWCU-101
	RWCU-1C-9PS	STRUT	F-X	VT3H	RWCU-101
	RWCU-926N	PSA-35 SNUBBER	F-X	VT3H	RWCU-101
	RWCU-900N	PSA-3 SN(2)	F-X	VT3H	RWCU-101
	SW-P-1A(CS)	PUMP BASE	F-X	VT3H	SW-301
	SW-78	SPRING (2)	F-X	VT3H	SW-301
	SW-121	SPRING (2)	F-X	VT3H	SW-301
	SW-202	STRUT	F-X	VT3H	SW-301
	DCW-HX-1A1(CS)	HX BASE	F-X	VT3H	SW-302
	DCW-HX-1A2(CS)	HX BASE	F-X	VT3H	SW-302
	SW-153	BOX	F-X	VT3H	SW-303
	SW-151	STRUT	F-X	VT3H	SW-303
	SW-212	BOX	F-X	VT3H	SW-303
	SW-149	BOX	F-X	VT3H	SW-303
	SW-150	SPRING (2)	F-X	VT3H	SW-303
	SW-353	BOX	F-X	VT3H	SW-304
	SW-P-1B(CS)	PUMP BASE	F-X	VT3H	SW-305
	SW-198	BOX	F-X	VT3H	SW-305
	DCW-HX-1B1(CS)	HX BASE	F-X	VT3H	SW-306
	DCW-HX-1B2(CS)	HX BASE	F-X	VT3H	SW-306
	SW-251	BOX	F-X	VT3H	SW-308
	HPCS-P-2(CS)	PUMP BASE	F-X	VT3H	SW-309
	DCW-HX-1C(CS)	HX BASE	F-X	VT3H	SW-310
	SW-961N	RIGID	F-X	VT3H	SW-312
	SW-960N	RIGID	F-X	VT3H	SW-313
	FPC-903N	ANCHOR	F-X	VT3H	FPC-201
	FPC-86	SPRING	F-X	VT3H	FPC-301
	FPC-P-1A(CS)	PUMP BASE	F-X	VT3H	FPC-301

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
IWF	FPC-P-1B(CS)	PUMP BASE	F-X	VT3H	FPC-301
	FPC-HX-1A(CS)	HX BASE	F-X	VT3H	FPC-302
	FPC-HX-1B(CS)	HX BASE	F-X	VT3H	FPC-303
	FPC-DM-1A(CS)	DEMIN BASE	F-X	VT3H	FPC-304
	FPC-112	STRUT	F-X	VT3H	FPC-304
	FPC-116	RIGID	F-X	VT3H	FPC-304
	FPC-DM-1B(CS)	DEMIN BASE	F-X	VT3H	FPC-304
	FPC-93	RIGID	F-X	VT3H	FPC-305
	FPC-226	SPRING	F-X	VT3H	FPC-305
	FPC-224	BOX	F-X	VT3H	FPC-305
	FPC-223	ANCHOR	F-X	VT3H	FPC-305
	FPC-209	BOX	F-X	VT3H	FPC-305
	FPC-210	BOX	F-X	VT3H	FPC-305
	FPC-P-3(CS)	PUMP BASE	F-X	VT3H	FPC-306
	FPC-45	BOX	F-X	VT3H	FPC-307
	FPC-21	STRUT	F-X	VT3H	FPC-308
	FPC-22	SPRING	F-X	VT3H	FPC-308
	RCC-434	ANCHOR	F-X	VT3H	RCC-301
	RCC-440	ANCHOR	F-X	VT3H	RCC-301
	RCC-327	SPRING	F-X	VT3H	RCC-302
	RCC-945N	RIGID	F-X	VT3H	RCC-303
	MSRV-1A-1	PSA-10 SNUBBER	F-X	VT3H	MS-301
	MS-266	SPRING	F-X	VT3H	MS-301
	MSRV-1A-3	PSA-10 SNUBBER	F-X	VT3H	MS-301
	MSRV-1A-4	PSA-10 SNUBBER	F-X	VT3H	MS-301
	MSRV-1A-2	PSA-10 SNUBBER	F-X	VT3H	MS-301
	MS-267	SPRING	F-X	VT3H	MS-301
	MSRV-1A-5	PSA-10 SNUBBER	F-X	VT3H	MS-301
	MSRV-1A-6	PSA-10 SNUBBER	F-X	VT3H	MS-301
	MS-268	SPRING	F-X	VT3H	MS-301
	MSRV-1A-7PS	RIGID	F-X	VT3H	MS-301
	MS-269	SPRING	F-X	VT3H	MS-302
	MSRV-2A-2	PSA-10 SNUBBER	F-X	VT3H	MS-302

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
IWF	MSRV-2A-3	PSA-35 SNUBBER	F-X	VT3H	MS-302
	MSRV-2A-1	PSA-10 SNUBBER	F-X	VT3H	MS-302
	MSRV-2A-5	PSA-10 SNUBBER	F-X	VT3H	MS-302
	MS-270	SPRING	F-X	VT3H	MS-302
	MSRV-2A-4	PSA-10 SNUBBER	F-X	VT3H	MS-302
	MS-271	SPRING	F-X	VT3H	MS-302
	MS-332	SPRING	F-X	VT3H	MS-302
	MSRV-2A-5PS	RIGID	F-X	VT3H	MS-302
	MSRV-3A-2	PSA-10 SNUBBER	F-X	VT3H	MS-303
	MSRV-3A-3	PSA-10 SNUBBER	F-X	VT3H	MS-303
	MSRV-3A-1	PSA-10 SNUBBER	F-X	VT3H	MS-303
	MSRV-3A-4	PSA-10 SNUBBER	F-X	VT3H	MS-303
	MSRV-3A-5	PSA-10 SNUBBER	F-X	VT3H	MS-303
	MSRV-3A-6	PSA-10 SNUBBER	F-X	VT3H	MS-303
	G306	RIGID	F-X	VT3H	CRD-201
	G500	RIGID	F-X	VT3H	CRD-201
	G613	RIGID	F-X	VT3H	CRD-201
	G319	RIGID	F-X	VT3H	CRD-201
	G323	RIGID	F-X	VT3H	CRD-201
	G501	RIGID	F-X	VT3H	CRD-201
	G513	RIGID	F-X	VT3H	CRD-201
	G327	RIGID	F-X	VT3H	CRD-201
	G503	RIGID	F-X	VT3H	CRD-201
	G333	RIGID	F-X	VT3H	CRD-201
	G339	RIGID	F-X	VT3H	CRD-201
	G504	RIGID	F-X	VT3H	CRD-201
	G519	RIGID	F-X	VT3H	CRD-201
	G506	RIGID	F-X	VT3H	CRD-201
	SDV-A(CS)	SDV BASE	F-X	VT3H	CRD-201
	G601	RIGID	F-X	VT3H	CRD-202
	G603	RIGID	F-X	VT3H	CRD-202
	G432	RIGID	F-X	VT3H	CRD-202
	G426	RIGID	F-X	VT3H	CRD-202

NIS-1

1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
IWF	G604	RIGID	F-X	VT3H	CRD-202
	G605	RIGID	F-X	VT3H	CRD-202
	G422	RIGID	F-X	VT3H	CRD-202
	G606	RIGID	F-X	VT3H	CRD-202
	G418	RIGID	F-X	VT3H	CRD-202
	G600	RIGID	F-X	VT3H	CRD-202
	G607	RIGID	F-X	VT3H	CRD-202
	G406	RIGID	F-X	VT3H	CRD-202
	G608	RIGID	F-X	VT3H	CRD-202
	SDV-B(CS)	SDV BASE	F-X	VT3H	CRD-202
	SLC-4475-120	PSA-1 SNUBBER	F-X	VT3H	SLC-101
	SLC-4475-122	PSA-1/4 SNUBBER	F-X	VT3H	SLC-101
	SLC-TK-1(CS)	SLC TK SUPPORT	F-X	VT3H	SLC-101

APPENDIX B

NDE Examination Summary

Note: Outage "RF86A" is identified as "R1" in this summary

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RPV
DESCRIPTION: NOZZLES - SHELL

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
N4-30-IR	VOL	1RPU-001	72				NO RECORDABLE INDICATIONS
N4-30-NB	VOL	1RPU-002	25				NO RECORDABLE INDICATIONS
N12	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS
N13	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS
N14	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS
N17	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CORE SPRAY SPARGERS							
	VT-1	1RPV-004	ACC				NO RECORDABLE INDICATIONS
STM/DRY SUPPORT							
	VT-1	1RPV-004	ACC				TWO LUGS REQUIRED FURTHER EVALUATION. DIRECT VISUAL AND PT WERE PERFORMED. INDICATIONS ON CCTV WERE DUE TO SHARP WELD EDGE.
UPPER CORE GRID							
	VT-3	1RPV-004	ACC				NO RECORDABLE INDICATIONS
RPV INTERIOR							
	VT-3	1RPV-004	ACC				TWO STEAM DRYER SUPPORT LUGS HAD INDICATIONS THAT REQUIRED FURTHER EVALUATION. A DIRECT VISUAL EXAM AND A PENETRANT EXAM WAS PERFORMED THE INDICATIONS WERE SHARP WELD EDGE. SEE PT REPORT 001
RPV STAB 45							
	VT3H	1HV-0029	ACC				NO RECORDABLE INDICATIONS
RPV STAB 135							
	VT3H	1HV-0029	ACC				NO RECORDABLE INDICATIONS
RPV STAB 225							
	VT3H	1HV-0029	ACC				NO RECORDABLE INDICATIONS
RPV STAB 315							
	VT3H	1HV-0029	ACC				NO RECORDABLE INDICATIONS
RPV STAB 0							
	VT3H	1HV-0029	ACC				NO RECORDABLE INDICATIONS
RPV STAB 90							
	VT3H	1HV-0030	ACC				NO RECORDABLE INDICATIONS
RPV STAB 180							
	VT3H	1HV-0030	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RPV
DESCRIPTION: RPV STUDS, NUTS, ETC

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RPV STAB 270							
	VT3H	1HV-0030	ACC				NO RECORDABLE INDICATIONS
RPV(CS)							
	VT3H	1HV-0030	ACC				NO RECORDABLE INDICATIONS
RPV-PB-101(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RPV-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RPV
DESCRIPTION: TOP & BTM HD NOZZLES

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
N11							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS
N15							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS
CRD							
	VT-2	1VT2-86		ACC			ONE FLANGE LEAKING 24 DROPS/ MIN ACCEPTABLE PER SHIFT TECHNICAL ADVISER, T POWELL.
CRD HOUSING BLT							
	VT-1	1RPV-003	ACC				PSI ON REPLACEMENT BOLTS FOR DRIVE 22-51 26-51 34-51 31-38 27-38 22-23 23-26
INCORE							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS
RPV-PB-102(L)							
	VT-2	1VT2-86		ACC			ONE CRD FLANGE CONNECTION FOUND TO LEAK AT 24 DROPS PER MIN. EVALUATED BY TECHNICAL STAFF AND FOUND TO BE ACCEPTABLE

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: M3
DRAWING NO. RPV-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RPV
DESCRIPTION: TOP & BTM HD NOZZLES

DATE 07/10/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING BLT							
	VT-1	1RPV-001	ACC				REPORT COVERS CRD FLANGE BOLTING FOR CRD 1)22-23 2)42-19 3)38-23
		1RPV-002	ACC				REPORT COVERS CRD FLANGE BOLTING FOR CRD 1)34-35 2)26-51

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RCIC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCIC(12)-4
DESCRIPTION: RCIC STEAM SUPPLY

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
10RCIC(12)-1							
	VOL	1RIU-001		45			SCAN 2 270-0 DEGREE 90% DAC POSITION: L=8.0 W=2.0
10RCIC(12)-2							
	VOL	1RIU-002		45			1) SCAN 1 270-0 DEGRE 95% DAC POSITION: L=7.0 W=0.7 2) SCAN 2 270-0 DEGREE 95% DAC POSITION: L=8.0 W=0.6
	SUR	1RIP-002	ACC				NO RECORDABLE INDICATIONS
10RCIC(12)-3							
	VOL	1RIU-003	45				NO RECORDABLE INDICATIONS
	SUR	1RIP-003	ACC				NO RECORDABLE INDICATIONS
RCIC-75							
	VT3H	1HV-0031	ACC				NO RECORDABLE INDICATIONS
10RCIC(12)-4							
	VOL	1RIU-004		45			SCAN 2 270-0 DEGREE 50% DAC POSITION: L=1.0 W=1.9
RCIC-1C-9							
	VT3H	1HV-0031	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-10							
	VT3H	1HV-0031	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-12							
	VT3H	1HV-0031	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-15							
		1HV-0031	ACC				NO RECORDABLE INDICATIONS
RCIC-PB-101(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-948N							
	VT3H	1HV-0023	ACC				NO RECORDABLE INDICATIONS
6RCIC(1)-12							
	VOL	1RIU-007		45			SCAN 2 0-90 DEGREE 70% DAC POSITION: L=5 W=0.6
	SUR	1RIP-007	ACC				NO RECORDABLE INDICATIONS
RCIC-937N							
	VT3H	1HV-0032	ACC				NO RECORDABLE INDICATIONS
RCIC-PB-102(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RCIC-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RCIC(13)-23							
	VOL	1RIU-005		45			1) SCAN 2 0-90 DEGREE 100% DAC POSITION: L=0 W=0.7 2) SCAN 1 0-90 DEGREE 100% DAC POSITION: L=0 W=0.7
4RCIC(13)-24							
	VOL	1RIU-006		45			1) SCAN 1 0-90 DEGREE 95% DAC POSITION: L=3.5 W=0.6 2) SCAN 2 0-90 DEGREE 100% DAC POSITION: L=3.5 W=0.6

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RCIC-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCIC(16)-1
DESCRIPTION: RCIC TURBINE EXHAUST

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-1							
	VT3H	1HV-0007	ACC				NO RECORDABLE INDICATIONS
RCIC-2							
	VT3H	1HV-0008	ACC				NO RECORDABLE INDICATIONS
RCIC-3							
	VT3H	1HV-0008	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RCIC-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCIC-P-1
DESCRIPTION: PUMP SUCTION LINES

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-P-1(CS)							
	VT3H	1HV-0008	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RCIC-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCIC(1)-4
DESCRIPTION: RCIC PUMP DISCHARGE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-79	VT3H	1HV-0015	ACC				NO RECORDABLE INDICATIONS
RCIC-80	VT3H	1HV-0023	ACC				NO RECORDABLE INDICATIONS
RCIC-82	VT3H	1HV-0023	ACC				NO RECORDABLE INDICATIONS
RCIC-83	VT3H	1HV-0023	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. HPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12HPCS(1)-6LUO							
	VOL	1HPU-001	45				NO RECORDABLE INDICATIONS
	SUR	1HPP-003	ACC				NO RECORDABLE INDICATIONS
12HPCS(1)-6LUI							
	VOL	1HPU-002	45				NO RECORDABLE INDICATIONS
	SUR	1HPP-001	ACC				NO RECORDABLE INDICATIONS
12HPCS(1)-6							
	VOL	1HPU-003			45		1) SCAN 2 270-360 DEGREE 141% DAC POSITION L=4.5 W=1.1 2) SCAN 2 0-90 DEGREE 60% DAC POSITION L=6.5 W=1.4
		1HPU-004		45			SCAN SURFACE 1 0-90 DEGREE 55% DAC POSITION: L=8 W=1.15 ACCEPTABLE
		1HPU-03A	THICKNES				CORROSIN WIRE BRUSHED OFF LESS THAN 5 MILS REMOVED
	SUR	1HPP-002	ACC				NO RECORDABLE INDICATIONS
HPCS-910N							
	VT3H	1HV-0033	ACC				NO RECORDABLE INDICATIONS
HPCS-911N							
	VT3H	1HV-0033	ACC				NO RECORDABLE INDICATIONS
12HPCS(1)-7							
	VOL	1HPU-005	45				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. HPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1HPU-05A	THICKNES				THIN LAYER OF CORRISION WIRE BRUSHED OFF ABOVE MIN WALL
HPCS-PB-101(L)	SUR	1HPP-004	ACC				NO RECORDABLE INDICATIONS
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. HPCS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT HPCS-P-1
DESCRIPTION: HPCS-P-1 SUCTION

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMEIRY	SIGNIFICANT OTHER	REMARKS
HPCS-P-1(CS)							
	VT3H	1HV-0011	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. HPCS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT HPCS(1)-4
DESCRIPTION: HPCS-P-1 DISCHARGE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
HPCS-44							
	VT3H	1HV-0011	ACC				NO RECORDABLE INDICATIONS
HPCS-13							
	VT3H	1HV-0011	ACC				NO RECORDABLE INDICATIONS
HPCS-15							
	VT3H	1HV-0012	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. HPCS-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT HPCS(4)-1
DESCRIPTION: HPCS

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
HPCS-7							
	VT3H	1HV-0011	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. LPCS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
LPCS-61							
	VT3H	1HV-0033	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-21							
	VOL	1LPU-001	45				NO RECORDABLE INDICATIONS
	SUR	1LPP-001	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-22							
	VOL	1LPU-002	45				NO RECORDABLE INDICATIONS
	SUR	1LPP-002	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-23							
	VOL	1LPU-003	45				NO RECORDABLE INDICATIONS
	SUR	1LPP-003	ACC				NO RECORDABLE INDICATIONS
LPCS-PB-101(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. LPCS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT LPCS-P-1
DESCRIPTION: LPCS-P-1 SUCTION

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
LPCS-P-1(CS)							
	VT3H	1HV-0010	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. LPCS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT LPCS(3)-2
DESCRIPTION: LPCS-P-1 DISCHARGE

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
LPCS-901N							
	VT3H	1HV-0010	ACC				NO RECORDABLE INDICATIONS
LPCS-18							
	VT3H	1HV-0010	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. LPCS-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT LPCS(4)-1
DESCRIPTION: LPCS

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
LPCS-911N	VT3H	1HV-0010	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "A"

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
14LPCI(1)A-1							
	VOL	1RHU-011	45				NO RECORDABLE INDICATIONS
	SUR	1RHP-012	ACC				NO RECORDABLE INDICATIONS
RHR-941N							
	VT3H	1HV-0015	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)A-2							
	VOL	1RHU-013	45				NO RECORDABLE INDICATIONS
	SUR	1RHP-016	ACC				NO RECORDABLE INDICATIONS
RHR-PB-101(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-390							
	VT3H	1HV-0034	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)B-16							
	VOL	1RHU-004		45			SCAN 2 90-180 75% DAC POSITION L=1.5 W=0.65
	SUR	1RHP-004		ACC			SURFACE 1 180-270 DEGREE 1/8 ROUND ED POSITION L=1.0 W=0.5
14LPCI(1)B-17							
	VOL	1RHU-006	45				NO RECORDABLE INDICATIONS
	SUR	1RHP-006	ACC				NO RECORDABLE INDICATIONS
RHR-PB-102(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
14LPCI(1)C-24							
	VOL	1RHU-007	45				NO RECORDABLE INDICATIONS
	SUR	1RHP-007	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)C-25							
	VOL	1RHU-005		45			SCAN 2 90-180 DEGREE 70% DAC POSITION: L=3.0 W=0.45
	SUR	1RHP-005	ACC				NO RECORDABLE INDICATIONS
RHR-PB-103(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: C1
OUTAGE: R1
DRAWING NO. RHR-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(2)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
20RHR(2)-11							
	VOL	1RHU-002	45				NO RECORDABLE INDICATIONS
		1RHU-02A	THICKNES				ABOVE MIN WALL
	SUR	1RHP-003	ACC				SURFACE 2 180-270 3/32 ROUNDED POSITION L=4-5/8 W=1/2
20RHR(2)-12							
	VOL	1RHU-003		45			SCAN 2 0-90 DEGREE 55% DAC POSITION L=2.5 W=1.25
		1RHU-03A	THICKNES				THICKNESS MEASUREMENT TAKEN IN WIRE BRUSHED AREA 30-200 DEGREE TO REMOVE CORROSION PRODUCTS NO SIGNIFICANT MATERIAL REMOVED
	SUR	1RHP-002		ACC			SURFACE 1 0-90 DEGREE 1/4 LINEAR POSITION L=14.0 W=1-3/4
RHR-78							
	VT3H	1HV-0014	ACC				NO RECORDABLE INDICATIONS
RHR-PB-104(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-SA-37							
	VT3H	1HV-0034	ACC				NO RECORDABLE INDICATIONS
12RHR(1)A-11							
	VOL	1RHU-001		45			SCAN 1 90-180 DEGREE 70% DAC POSITION L=8.0 W=0.5
	SUR	1RHP-001	ACC				NO RECORDABLE INDICATIONS
RHR-510							
	VT3H	1HV-0034	ACC				NO RECORDABLE INDICATIONS
RHR-PB-105(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: G1
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-4
DESCRIPTION: SHUTDN COOL RET LP-B

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-512							
	VT3H	1HV-0034	ACC				NO RECORDABLE INDICATIONS
RHR-SB-34(W)							
	SUR	1RHM-001	ACC				NO RECORDABLE INDICATIONS
RHR-SB-34							
	VT3H	1HV-0034	ACC				NO RECORDABLE INDICATIONS
RHR-PB-106(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
14RHR(1)A-2							
	SUR	1RHP-014	ACC				NO RECORDABLE INDICATIONS
	VOL	1RHU-014	45				NO RECORDABLE INDICATIONS
14RHR(1)A-3							
	SUR	1RHP-015	ACC				NO RECORDABLE INDICATIONS
	VOL	1RHU-015		45			SCAN 2 90-180 DEGREE 60% DAC POSITION: L=6.0 W=0.75
18RHR(1)A-1							
	SUR	1RHP-013	ACC				NO RECORDABLE INDICATIONS
	VOL	1RHU-016	45				NO RECORDABLE INDICATIONS
RHR-157(W)							
	SUR	1RHM-004	ACC				NO RECORDABLE INDICATIONS
RHR-157							
	VT3H	1HV-0006	ACC				NO RECORDABLE INDICATIONS
18RHR(1)A-8							
	SUR	1RHP-011	ACC				NO RECORDABLE INDICATIONS
	VOL	1RHU-012		45			SAN 1 315-0 DEGREE 96% DAC POSITION: L=1.4 W=0.6
18RHR(1)A-24							
	SUR	1RHP-010	ACC				NO RECORDABLE INDICATIONS
	VOL	1RHU-008		45			1) SCAN 1 0-45 DEGREE 60% DAC POSITION: L=3.6 W=0.5 2) SCAN 2 0-45 DEGREE 65% DAC POSITION: L=4.2 W=0.5

WNP-02
INTERVAL: C1
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-2
DESCRIPTION: STM SPLY TO RHR HX1A

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
18RHR(1)A-25							
	SUR	1RHP-009	ACC				NO RECORDABLE INDICATIONS
	VOL	1RHU-009		45			SCAN 1 225-270 DEGREE 65% DAC POSITION: L=0.25 W=0.6
18RHR(1)A-30							
	SUR	1RHP-008	ACC				NO RECORDABLE INDICATIONS
	VOL	1RHU-010		45			SCAN 2 225-270 DEGREE 55% DAC POSITION: L=0.5 W=0.7
RHR-599							
	VT3H	1HV-0028	ACC				NO RECORDABLE INDICATIONS
RHR-1000N							
	VT3H	1HV-0028	ACC				NO RECORDABLE INDICATIONS
RHR-1001N							
	VT3H	1HV-0028	ACC				NO RECORDABLE INDICATIONS
RHR-238(W)							
	SUR	1RHM-003	ACC				NO RECORDABLE INDICATIONS
RHR-238							
	VT3H	1HV-0023	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT 16RHR(5)-2
DESCRIPTION: DRYWELL SPRAY SUP"A"

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-249							
	VT3H	1HV-0024	ACC				NO RECORDABLE INDICATIONS
RHR-251							
	VT3H	1HV-0024	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT 18RHR(4)-2
DESCRIPTION: RHR TEST LINE LOOP A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-948N(W)							
	SUR	1RHM-002	ACC				NO RECORDABLE INDICATIONS
RHR-948N							
	VT3H	1HV-0012	ACC				NO RECORDABLE INDICATIONS
RHR-947N							
	VT3H	1HV-0012	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT 20RHR(8)-2
DESCRIPTION: RHR-LPCS CROSSTIE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-129							
	VT3H	1HV-0009	ACC				NO RECORDABLE INDICATIONS
RHR-423							
	VT3H	1HV-0009	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-207

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)2
DESCRIPTION: LOOP B SPLY-RHR HX1B

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-548							
	VT3H	1HV-0024	ACC				NO RECORDABLE INDICATIONS
RHR-942N							
	VT3H	1HV-0006	ACC				NO RECORDABLE INDICATIONS
RHR-922N							
	VT3H	1HV-0006	ACC				NO RECORDABLE INDICATIONS
RHR-945N							
	VT3H	1HV-0006	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-210

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-2
DESCRIPTION: LOOP C/LPCI RETURN

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-316							
	VT3H	1HV-0009	ACC				NO RECORDABLE INDICATIONS
RHR-999N							
	VT3H	1HV-0009	ACC				NO RECORDABLE INDICATIONS
RHR-297							
	VT3H	1HV-0009	ACC				NO RECORDABLE INDICATION

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-211

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(3)-1
DESCRIPTION: RHR-P-2C SUCTION

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-140							
	VT3H	1HV-0008	ACC				NO RECORDABLE INDICATIONS
RHR-49							
	VT3H	1HV-0008	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-212

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(16)-1
DESCRIPTION: COND MODE SUPPLY

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-990N							
	VT3H	1HV-0007	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: C1
OUTAGE: R1
DRAWING NO. RHR-213

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR-P-2A
DESCRIPTION: RHR PUMP 2A & 2B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-P-2A(CS)							
	VT3H	1HV-0007	ACC				NO RECORDABLE INDICATIONS
RHR-P-2B(CS)							
	VT3H	1HV-0006	ACC				NO RECORDABLE INDICATIONS
RHR-P-2C(CS)							
	VT3H	1HV-0010	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RHR-214

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR-HX-1A
DESCRIPTION: RHR HEAT EXCHANGE 1A

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-HX-1A(CS)							
	VT3H	1HV-0028	ACC				NO RECORDABLE INDICATIONS
RHR-HX-1B(CS)							
	VT3H	1HV-0028	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
26MS(1)A-3							
	VOL	1MSU-037	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-040	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-3LDI							
	VOL	1MSU-036	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-039	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-3LDO							
	VOL	1MSU-035	45				NO RECORDABLE INDICTIONS
	SUR	1MSP-038	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-4LUI							
	VOL	1MSU-034	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-042	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-4LUO							
	VOL	1MSU-033	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-041	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-4							
	VOL	1MSU-032	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-043	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-4/2MS(12)-4							
	SUR	1MSP-044	ACC				NO RECORDABLE INDICATIONS
MS-HA-1(W)							
	SUR	1MSM-005	ACC				NO RECORDABLE INDICATIONS
MS-SA-6							
	VT3H	1HV-0035	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-SA-7							
	VT3H	1HV-0035	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-6							
	VOL	1MSU-014	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-019	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-7/8MSR-2A							
	VOL	1MSU-016	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-018	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-7/8MSR-1A							
	VOL	1MSU-015	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-017	ACC				NO RECORDABLE INDICATIONS
MS-SA-1							
	VT3H	1HV-0035	ACC				NO RECORDABLE INDICATIONS
MS-SA-2							
	VT3H	1HV-0035	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-15							
	VOL	1MSU-039	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-046		ACC			SURFACE 1 315-0 DEGREE 3/16 ROUND POSITION: L=1/2 FROM 0 W=1-1/2
26MS(1)A-16							
	VOL	1MSU-038		45			SCAN 1 315-0 DEGREE 100% DAC POSITION:L=-3.5 W=1.3
	SUR	1MSP-045	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
26MS(1)A-17							
	VOL	1MSU-013		45			SCAN 2 180-225 DEGREE 60% DAC POSITION L=2.0 W=1.25
	SUR	1MSP-010	ACC				NO RECORDABLE INDICATIONS
MS-V-28A/2MS(9)-4							
	SUR	1MSP-011	ACC				NO RECORDABLE INDICATIONS
MS-PB-101(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: M3
DRAWING NO. MS-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

DATE 07/10/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-V-22B-BDY	VT-3	1MSV-001	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-PB-102(L)							
	VT-2	1VT2-86				ACC	PI-EFC-X18B BODY TO BONNET CONNECTION LEAKS. REPAIRED BY MWR AV725. RETEST RESULTS ACCEPTABLE. NO LEAKS. SEE PAGE 22 OF THIS DATA REPORT

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-PB-103(L)	VT-2	1VT2-86	ACC				NO RECORDABLE IUNDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-PB-104(L)	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(9)-4
DESCRIPTION: MS VALVE DRAINS

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-PB-105(L)	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
26MS(1)A-18							
	VOL	1MSU-008		45			1) SCAN 1 0-45 55% DAC POSITION L=6.0 W=1.35 2) SCAN 2 0-45 50% DAC POSITION L=6.0 W=3.5
	SUR	1MSP-009	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-18LD							
	VOL	1MSU-009	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-008	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-19LU							
	VOL	1MSU-010	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-014	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-19							
	VOL	1MSU-011		45			1) SCAN 2 0-45 DEGREE 55% DAC POSITION L=8.0 W=1.15 2) SCAN 1 0-45 DEGREE 60% DAC POSITION L=8.0 W=1.0
	SUR	1MSP-013	ACC				NO RECORDABLE INDICATIONS
26MS(1)A-19LD							
	VOL	1MSU-012	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-012	ACC				NO RECORDABLE INDICATIONS
MS-135							
	VT3H	1HV-0050	ACC				NO RECORDABLE INDICATIONS
30MS(1)A-8LUI							
	VOL	1MSU-005	45				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
30MS(1)A-8LUO	SUR	1MSP-005	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-006	45				NO RECORDABLE INDICATIONS
30MS(1)A-8	SUR	1MSP-006	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-004	45				NO RECORDABLE INDICATIONS
30MS(1)A-8LD	SUR	1MSP-004	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-007	45				NO RECORDABLE INDICATIONS
MS-993N	SUR	1MSP-007	ACC				NO RECORDABLE INDICATIONS
MS-117	VT3H	1HV-0050	ACC				NO RECORDABLE INDICATIONS
MS-117(W)	VT3H	1HV-0050	ACC				NO RECORDABLE INDICATIONS
30MS(1)A-13LUO	SUR	1MSM-002	ACC				
	VOL	1MSU-002	45				NO RECORDABLE INDICATIONS
30MS(1)A-13	SUR	1MSP-003	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-001		45			1) SCAN 1 45-90 DEGREE 70% POSITION L=3.0 W=1.1 2) SCAN 1 45-90 DEGREE 75% POSITION L=3.0 W=1.1

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
30MS(1)A-13LD	SUR	1MSP-001	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-003	45				NO RECORDABLE INDICATIONS
MS-114(W)	SUR	1MSP-002	ACC				NO RECORDABLE INDICATIONS
MS-114	SUR	1MSM-001	ACC				NO RECORDABLE INDICATIONS
MS-89(W)	VT3H	1HV-0050	ACC				NO RECORDABLE INDICATIONS
MS-89	SUR	1MSM-003	ACC				NO RECORDABLE INDICATIONS
	VT3H	1HV-0050	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT 2MS(20)-4
DESCRIPTION: MS PRESS STAB. LINE

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
2MS(20)A-1							
	SUR	1MSP-016	ACC				NO RECORDABLE INDICATIONS
2MS(20)A-2							
	SUR	1MSP-015	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-176							
	VT3H	1HV-0049	ACC				NO RECORDABLE INDICATIONS
30MS(1)B-19LU							
	VOL	1MSU-026	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-035	ACC				NO RECORDABLE INDICATIONS
30MS(1)B-19							
	VOL	1MSU-027	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-036	ACC				NO RECORDABLE INDICATIONS
30MS(1)B-19LDO							
	VOL	1MSU-028	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-037	ACC				NO RECORDABLE INDICATIONS
30MS(1)B-20LUO							
	VOL	1MSU-029	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-032	ACC				NO RECORDABLE INDICATIONS
30MS(1)B-20							
	VOL	1MSU-030		45			1) SCAN 1 0-45 DEGREE 70% DAC POSITION: L=2.5 W=1.125 2) SCAN 2 315-0 DEGREE 50% DAC POSITION: L=3.5 TO 0 W=1.25
	SUR	1MSP-034		ACC			1) SURFACE 1/16 ROUND 0-45 DEGREE POSITION L=6" FROM 0 W=3/4 2) SURFACE 1/16 ROUND 0-45 DEGREE POSITION L=5 7/8 FROM 0 W=3/4 3) SURFACE 2 9/32 ROUND 180-270 POSITION L=18" FROM 180 W=7/8

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
30MS(1)B-20LD							
	VOL	1MSU-031	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-033	ACC				NO RECORDABLE INDICATIONS
MS-147(W)							
	SUR	1MSM-004	ACC				NO RECORDABLE INDICATIONS
30MS(1)B-24/6MS(1)-4							
	SUR	1MSP-024		ACC			1) SURFACE 1 90-180 DEGREE 1/8 ROUNDED POSITION L = 1/2 FROM 180 2) SURFACE 2 90-180 DEGREE 1/8 ROUNDED POSITION L = 0 180 W = 1/2
6MS(1)B-1							
	SUR	1MSP-025	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-024	45				NO RECORDABLE INDICATIONS
6MS(1)B-2							
	SUR	1MSP-023	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-025		45			SCAN 2 0-90 DEGREE 55% DAC POSITION:L=2 W=0.5
30MS(1)B-27LU							
	SUR	1MSP-031	ACC				NO RECORDABLE INDICATIONS
30MS(1)B-27							
	VOL	1MSU-017		45			SCAN 2 225-315 DEGREE 95% DAC POSITION: L=10 W=2
	SUR	1MSP-030	ACC				NO RECORDABLE INDICATIONS
30MS(1)B-27LDO							
	VOL	1MSU-023		45			NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
30MS(1)B-28LUO	SUR	1MSP-029	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-021	45				NO RECORDABLE INDICATIONS
30MS(1)B-28	SUR	1MSP-028	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-018		45			SCAN 2 90-180 DEGREE 70% DAC POSITION: L=8 W=1.5
30MS(1)B-28LD	SUR	1MSP-027	ACC				NO RECORDABLE INDICATIONS
	VOL	1MSU-020	45				NO RECORDABLE INDICATIONS
	SUR	1MSP-026	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-301

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(18)-2-1
DESCRIPTION: MS-RV-1A DISCHARGE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MSRV-1A-1							
	VT3H	1HV-0036					NO RECORDABLE INDICATIONS
MS-266							
	VT3H	1HV-0036	ACC				NO RECORDABLE INDICATIONS
MSRV-1A-3							
	VT3H	1HV-0036	ACC				NO RECORDABLE INDICATIONS
MSRV-1A-4							
	VT3H	1HV-0036	ACC				NO RECORDABLE INDICATIONS
MSRV-1A-2							
	VT3H	1HV-0036	ACC				NO RECORDABLE INDICATIONS
MS-267							
	VT3H	1HV-0037	ACC				NO RECORDABLE INDICATIONS
MSRV-1A-5							
	VT3H	1HV-0037	ACC				NO RECORDABLE INDICATIONS
MSRV-1A-6							
	VT3H	1HV-0037	ACC				NO RECORDABLE INDICATIONS
MS-268							
	VT3H	1HV-0037	ACC				NO RECORDABLE INDICATIONS
MSRV-1A-7PS							
	VT3H	1HV-0037	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-302

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(18)-2
DESCRIPTION: MS-RV-2A DISCHARGE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-269	VT3H	1HV-0038	ACC				NO RECORDABLE INDICATIONS
MSRV-2A-2	VT3H	1HV-0038	ACC				NO RECORDABLE INDICATIONS
MSRV-2A-3	VT3H	1HV-0038	ACC				NO RECORDABLE INDICATIONS
MSRV-2A-1	VT3H	1HV-0038	ACC				NO RECORDABLE INDICATIONS
MSRV-2A-5	VT3H	1HV-0038	ACC				NO RECORDABLE INDICATIONS
MS-270	VT3H	1HV-0039	ACC				NO RECORDABLE INDICATIONS
MSRV-2A-4	VT3H	1HV-0039	ACC				NO RECORDABLE INDICATIONS
MS-271	VT3H	1HV-0039	ACC				NO RECORDABLE INDICATIONS
MS-332	VT3H	1HV-0039	ACC				NO RECORDABLE INDICATIONS
MSRV-2A-5PS	VT3H	1HV-0039	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MS-303

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(18)-2-3
DESCRIPTION: MS-RV-3A DISCHARGE

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MSRV-3A-2	VT3H	1HV-0040	ACC				NO RECORDABLE INDICATIONS
MSRV-3A-3	VT3H	1HV-0040	ACC				NO RECORDABLE INDICATIONS
MSRV-3A-1	VT3H	1HV-0040	ACC				NO RECORDABLE INDICATIONS
MSRV-3A-4	VT3H	1HV-0040	ACC				NO RECORDABLE INDICATIONS
MSRV-3A-5	VT3H	1HV-0040	ACC				NO RECORDABLE INDICATIONS
MSRV-3A-6	VT3H	1HV-0041	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: M3
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

DATE 07/10/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RFW-V-65A-BDY							
	VT-3	1FWV-005	ACC				2 MINOR PITS, 2 FT FROM BOTTOM OF BOWL, NO CHANGE FROM PSI. MINOR CORROSION ENTIRE ID SURFACE EXCEPT FOR SEATS
RFW-V-32A-BDY							
	VT-3	1FWV-002	ACC				MINOR (LIGHT) RUST ENTIRE ID SURFACE EXCEPT FOR SEAT
RFW-V-10A-BDY							
	VT-3	1FWV-003	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
24RFW(1)A-1A							
	VOL	1FWU-013		45			SCAN 2 0-45 DEGREE 95% DAC POSITION: L=6.0 W=1.4
24RFW(1)A-1							
	VOL	1FWU-014	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-012	ACC				NO RECORDABLE INDICATIONS
24RFW(1)A-1/5RFW(11)-4							
	VOL	1FWU-015		45			SCAN 1 90-180 DEREE 55% DAC POSITION: L=0.25 W=1.35
	SUR	1FWP-013	ACC				NO RECORDABLE INDICATIONS
RFW-186							
	VT3H	1HV-0042	ACC				NO RECORDABLE INDICATIONS
24RFW(1)A-15							
	VOL	1FWU-012	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-010	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AC-6							
	VOL	1FWU-017	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-014	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AC-7							
	VOL	1FWU-016	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-015	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AC-8							
	VOL	1FWU-021	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-018					NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12RFW(1)AC-9							
	VOL	1FWU-022	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-019	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AC-10							
	VOL	1FWU-020		45			SCAN 1 0-90 DEGREE 60% DAC POSITION: L=0 W=1.2
	SUR	1FWP-020		ACC			SURFACE 2 0-90 DEGREE 1/8 ROUNDED POSITION: L=8.0 W=0
12RFW(1)AC-11							
	VOL	1FWU-024	45				NO RECORDABLE INDICATIONS SEE REPORT 1FWU-026
		1FWU-026		45			SEE REPORT 1FWU-024 USED DIFFERENT TRANSDUCER AND CALIBRATION 1) SCAN 2 90-180 DEGREE 65% DAC POSITION: L=4.0 W=0.5 2) SCAN 2 90-180 DEGREE 60% DAC POSITION: L=4.0 W=1.0
	SUR	1FWP-021	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AC-12							
	VOL	1FWU-023	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-022	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AC-13							
	VOL	1FWU-025		45			SCAN 2 0-90 DEGREE 80% DAC POSITION: L=0.5 W=1.2 SEE REPORT 1FWU-028

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RFW-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1FWU-028		45			USED DIFFERENT TRANX AND CAL SEE REPORT 1FWU-025 1) SCAN 1 270-360 DEGREE 60% DAC POS: L=6.4 W=0.87 2) SCAN 2 0-90 DEGREE 90% DAC POS: L=0.5 W=0.75 3) SCAN 2 0-90 DEGREE 90% DAC L=3.0 W=1.19
RFW-160	SUR	1FWP-023	ACC				NO RECORDABLE INDICATIONS
RFW-154	VT3H	1HV-0042	ACC				NO RECORDABLE INDICATIONS
RFW-PB-101(L)	VT3H	1HV-0042	ACC				NO RECORDABLE INDICATIONS
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: M3
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

DATE 07/10/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RFW-V-32B-BDY							
	VT-3	1FWV-001	ACC				MINOR (LIGHT) RUST ENTIRE ID SURFACE EXCEPT SEAT
RFW-V-10B-BDY							
	VT-3	1FWV-004	ACC				MINOR RUST ENTIRE SURFACE EXCEPT FOR SEATS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
24RFW(1)B-6	VOL	1FWU-003			45		SCAN 1 315-360 DEGREE 125% DAC POSITION: L=0.9 W=2.8 GEOMETRY
		1FWU-001	45				SCAN LIMITED TO TOP 1/2 OF PIPE DUE TO PWS (90-0-270) NO SCAN ELBOW SIDE SEE REPORT 1FWU-003. NO RECORDABLE INDICATION
	SUR	1FWP-009	ACC				NO RECORDABLE INDICATIONS
24RFW(1)B-6LDO	VOL	1FWU-005	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-002	ACC				NO RECORDABLE INDICATIONS
24RFW(1)B-6LDI	VOL	1FWU-004	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-001	ACC				NO RECORDABLE INDICATIONS
24RFW(1)B-7LUI	VOL	1FWU-007	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-003	ACC				NO RECORDABLE INDICATIONS
24RFW(1)B-7LUO	VOL	1FWU-008	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-004	ACC				NO RECORDABLE INDICATIONS
24RFW(1)B-7	VOL	1FWU-002	45				NO SCAN ELBOW SIDE SEE REPORT 1FWU-006. NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RFW-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1FWU-006	45				NO SCAN PIPE SIDE SEE REPORT 1FWU-002. NO RECORDABLE INDICATIONS
RFW-182(W)	SUR	1FWP-005	ACC				NO RECORDABLE INDICATIONS
RFW-162	SUR	1FWM-002	ACC				NO RECORDABLE INDICATIONS
RFW-175(W)	VT3H	1HV-0042	ACC				NO RECORDABLE INDICATIONS
RFW-175	SUR	1FWM-001	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BD-1	VT3H	1HV-0042	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-009	45				NO RECORDABLE INDICATIONS
12RFW(1)BD-2	SUR	1FWP-006	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-010		45			SCAN 2 180-270 DEGREE 50% DAC POSITION L=3.0 W=1.0
12RFW(1)BD-3	SUR	1FWP-007	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-011		45			SCAN 2 0-90 DEGREE 60% DAC POSITION L=9.0 W=0.9
RFW-PB-102(L)	SUR	1FWP-008	ACC				NO RECORDABLE INDICATIONS
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RFW-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RFW(11)-4
DESCRIPTION: REACTOR FEEDWATER

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
6RFW(11)-1							
	VOL	1FWU-018	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-017	ACC				NO RECORDABLE INDICATIONS
6RFW(11)-2							
	VOL	1FWU-019	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-016	ACC				NO RECORDABLE INDICATIONS
RFW-PB-103(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
24RRC(2)A-10/4RRC(8)-4S							
	VOL	1RRU-061	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-016	45				NO RECORDABLE INDICATIONS PRE-IHSI
24RRC(2)A-10/4RRC(4)-4S							
	VOL	1RRU-060	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-013	45				NO RECORDABLE INDICATIONS PRE-IHSI
24RRC(1)A-13/8CAP							
	VOL	1RRU-056		45			SCAN 1 90-180 DEGREE 50% DAC POSITION:L=11.5 W=1.9 POST-IHSI
		1RRU-017		46			SCAN SURFACE 1 46 DEGREE 70% DAC POSITION: L=5.75 W=1.7 ID GEOMETRY PRE-IHSI
24RRC(1)A-13/4RRC(8)-4S							
	VOL	1RRU-057	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-018	45				NO RECORDABLE INDICATIONS PRE-IHSI
	SUR	1RRP-014	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
24RRC(1)A-20/12RRC(7)-4S							
	VOL	1RRU-059		45			SCAN 4 360 INT. 50% DAC IWC= 1.8 MPL= 1.87 ROOT GEO POST-IHSI
		1RRU-012	45				NO RECORDABLE INDICATIONS PRE-IHSI
24RRC(1)A-20/12CAP							
	VOL	1RRU-058	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-014		45			SCAN 4 18 TO 25 INCH 60% DAC METAL PATH: 1.69 IWC:1.2 ROOT GEOMETRY PRE-IHSI
	SUR	1RRP-015	ACC				NO RECORDABLE INDICATIONS
RRC-PB-101(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-HB-1							
	VT3H	1HV-0043	ACC				NO RECORDABLE INDICATIONS
RRC-SB-16(W)							
	SUR	1RRP-005	ACC				END OF LUGS ADJACENT TO CLAMP NOT EXAMINED
RRC-SB-16							
	VT3H	1HV-0043	ACC				NO RECORDABLE INDICATIONS
24RRC(2)B-7							
	SUR	1RRP-007	ACC				
24RRC(2)B-8/4RRC(8)-4S							
	VOL	1RRU-039		45			SCAN 4 60% DAC 360 INT. MPL=1.65 IWC=1.4 PRE-IHSI
		1RRU-082	45				NO RECORDABLE INDICATIONS POST-IHSI
24RRC(2)B-8/4RRC(4)-4S							
	VOL	1RRU-041	45				NO RECORDABLE INDICATIONS PRE-IHSI
		1RRU-081	45				NO RECORDABLE INDICATIONS POSI-IHSI
24RRC(2)B-9							
	SUR	1RRP-003	ACC				
24RRC(2)B-10							
	SUR	1RRP-002	ACC				
24RRC(1)B-11							
	SUR	1RRP-004	ACC				
24RRC(1)B-11/8CAP							
	VOL	1RRU-040	45				NO RECORDABLE INDICATIONS PRE-IHSI

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(2)-4S
DESCRIPTION: REACTOR RECIR LOOP B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1RRU-080	45				NO RECORDABLE INDICATIONS POST-IHSI
24RRC(1)B-11/4RRC(8)-4S							
	VOL	1RRU-037	45				NO RECORDABLE INDICATIONS PRE-IHSI
		1RRU-079	45				NO RECORDABLE INDICATIONS POST-IHSI
RRC-SB-7							
	VT3H	1HV-0043	ACC				NO RECORDABLE INDICATIONS
RRC-SB-65							
	VT3H	1HV-0043	ACC				NO RECORDABLE INDICATIONS
RRC-SB-15							
	VT3H	1HV-0043	ACC				NO RECORDABLE INDICATIONS
24RRC(1)B-18/12RRC(7)-4S							
	VOL	1RRU-064	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-038		45			SCAN 4 50% DAC 80-110 DEGREE MPL=1.19 IWC=0.25 GEO PRE-IHSI
24RRC(1)B-18/12CAP							
	VOL	1RRU-063	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-042		45			SCAN 4 95% DAC GEO PRE-IHSI
RRC-PB-102(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC-P-1A
DESCRIPTION: RRC LOOP A PUMP

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-SB-3	VT3H	1HV-0044	ACC				NO RECORDABLE INDICATIONS
RRC-SB-4	VT3H	1HV-0044	ACC				NO RECORDABLE INDICATIONS
RRC-SB-5	VT3H	1HV-0044	ACC				NO RECORDABLE INDICATIONS
RRC-SB-6	VT3H	1HV-0044	ACC				NO RECORDABLE INDICATIONS
RRC-RB-1	VT3H	1HV-0044	ACC				NO RECORDABLE INDICATIONS
RRC-RB-1(W)	SUR	1RRP-001	ACC				NO RECORDABLE INDICATIONS
RRC-P-1B-BLT	VOL	1RRU-025	0				NO RECORDABLE INDICATIONS
		1RRU-026	0				EXAM OF NEW BOLTS NO RECORDABLE INDICATIONS S/N: 1,4,5,12,15,16, 17,18,19,21,25,26,27,29,41,44
	VT-1	1RRV-004	ACC				EXAM OF REPLACEMENT STUDS S/N 1,4,5,15,16,17,18,19,21,25, 26,27,29,41,44 NO RECORDABLE IND.
		1RRV-003	ACC				EXAM OF NEW NUTS NO RECORDABLE INDICATIONS S/N: 54,29,58,32, 46,24,50,11,4,52,39,55,18,41,10,31
		1RRV-001	ACC				THIS EXAM COVERS THE PUMP BODY FLANGE SURFACE(ALL) AND STUD HOLES ONLY NO RECORDABLE IND.

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC-P-1A
DESCRIPTION: RRC LOOP A PUMP

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-P-1B-BDY							
	VT-3	1RRV-002	ACC				NO RECORDABLE INDICATIONS
RRC-PB-103(L)							
	VT-2	1VT2-86	ACC				EXAM AREA IS COVERED ON DRAWINGS RRC-101 AND RRC-102

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-104

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(51)-4
DESCRIPTION: RPV DRAIN

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RRC(51)-6							
	VOL	1RRU-015		45			SCAN 2 0-90 DEGREE 90% DAC POSITION L=0.5 W=0.1 TO 0.35
	SUR	1RRP-006	ACC				NO RECORDABLE INDICATIONS
RRC-PB-104(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(6)-4S
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-105(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(7)-4S
DESCRIPTION: SHUTDN COOL RETURN A

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-106(L)	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-107

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(7)-4S
DESCRIPTION: SHUTDN COOL RETURN B

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-107(L)	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-108

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RRC(4)A-1							
	VOL	1RRU-048		45			SCAN 1 270-0 DEGREE 60% DAC POSITION L=2"CCW FROM 0 W=13/16 POST-IHSI EXAM DONE FOR ISI CREDIT
		1RRU-005		45			SCAN 4 360 DEGREE INTERMITANT 60% DAC METAL PATH:1.60 IWC:0.91 ROOT GEOMETRY PRE-IHSI
	SUR	1RRP-012	ACC				NO RECORDABLE INDICATIONS
4RRC(4)A-2							
	VOL	1RRU-050	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-006	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)A-3							
	VOL	1RRU-051		45			SCAN 4 270-90 DEGREE 60% DAC MPL=0.48 IWC=4/16 ROOT GEO POST ISHI
		1RRU-007	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)A-4							
	VOL	1RRU-052		45			NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-008	45				NO RECORDABLE INDICATIONS PRE-IHSI

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-108

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RRC(4)A-5							
	VOL	1RRU-047	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-009	45				NO RECORDABLE INDICATIONS PRE-IHSI
	SUR	1RRP-013	ACC				NO RECORDABLE INDICATIONS
4RRC(4)A-6							
	VOL	1RRU-054	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-010	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)A-7							
	VOL	1RRU-055		45			SCAN 3 360 INT. 55% DAC MPL=0.58 IWC=9/16 ROOT GEO POST-IHSI
		1RRU-011	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)A-8							
	VOL	1RRU-043		45			SCAN 3 360 DEGREE INT. 70% DAC IWC=1-1/8 MPL=0.43 ROOT GEO POST IHSI
		1RRU-001	45				NO RECORDABLE INDICATIONS PRE-IHSI
RRC-1C-8PS							
	VT3H	1HV-0045	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-108

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RRC(4)A-9							
	VOL	1RRU-044		45			1) SCAN 3 360 INT. 60% DAC MPL=0.45 IWC=3/8 ROOT GEO 2) SCAN 3 3/8 CCW TO 1/2 CW FROM 0 MPL=0.56 IWC=19/32 ROOT GEO 3) SCAN 4 360 INT. 75% DAC MPL= 0.43 IWC=3/8 RT GEO POST-IHSI
		1RRU-002		45			SCAN 4 360 DEGREE INTERMITANT 50% DAC METAL PATH:0.42 IWC:0.44 GEOMETRY PRE-IHSI
4RRC(4)A-10							
	VOL	1RRU-045		45			SCAN 4 360 DEGREE 97% DAC MPL=0.68 IWC=27/32 ROOT COUNTERBOR POST-IHSI
		1RRU-003		45			SCAN 4 360 DEGREE 90% DAC METAL PATH:0.68 IWC:0.84 GEOMETRY PRE-IHSI
4RRC(4)A-11							
	VOL	1RRU-046	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-004	45				NO RECORDABLE INDICATIONS PRE-IHSI
RRC-PB-108(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-109

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RRC(4)B-1							
	VOL	1RRU-072	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-019	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)B-2							
	VOL	1RRU-073	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-020	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)B-3							
	VOL	1RRU-074	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-032	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)B-4							
	VOL	1RRU-075		45			SCAN 4 360 INT. MPL=0.449 IWC=8/32 50% DAC ROOT GEO. POST-IHSI
		1RRU-021	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)B-5							
	VOL	1RRU-076		45			SCAN 3 360 INT. 60% DAC MPL=0.440 IWC=3/32 POST-IHSI

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-109

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1RRU-022	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)B-6							
	VOL	1RRU-077	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-023	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)B-7							
	VOL	1RRU-078		45			1) SCAN 3 55% DAC MPL=0.400 IWC=8/32 360 INT. ROOT GEO 2) SCAN 4 55% DAC MPL=0.40 IWC=5/32 360 INT. POST-IHSI
		1RRU-024	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)B-8							
	VOL	1RRU-065	45				NO RECORDABLE INDICATIONS POST-IHSI
		1RRU-027	45				NO RECORDABLE INDICATIONS PRE-IHSI
4RRC(4)B-9							
	VOL	1RRU-070		45			1) SCAN 2 50% DAC 0-90 DEGREE POSITION: L=1 W=29/32 2) SCAN 1 75% DAC 0-90 DG. POSITION: L=1-1/2 W=5/32 3) SCAN 1 & 2 50% DAC 270-360 POSTION: L=0 W=3/8 POST-IHSI

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-109

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1RRU-028		45			1) SCAN 3 50% DAC 360 INT. MPL= 1.50 IWC=0.906 GEO 2) SCAN 4 75% DAC 360 INT. MPL=0.62 IWC=0.156 GEO PRE-IHSI
4RRC(4)B-10	SUR	1RRP-016	ACC				NO RECORDABLE INDICATIONS
	VOL	1RRU-067	45				NO RECORDABLE INDICATIONS POST-IHSI
4RRC(4)B-11		1RRU-029	45				NO RECORDABLE INDICATIONS PRE-IHSI
	VOL	1RRU-071		45			SCAN 4 95% DAC 360 CONT. MPL=0.58 IWC=1-3/32 GEO. POST-IHSI
		1RRU-030		45			SCAN 4 85% DAC 360 INT. MPL=0.58 IWC=1.093 GEO PRE-IHSI
4RRC(4)B-12	SUR	1RRP-017	ACC				NO RECORDABLE INDICATIONS
	VOL	1RRU-069		45			1) SCAN 3 75% DAC MPL=0.76 IWC=9/32 360 INT. ROOT GEO 2) SCAN 4 55% DAC MPL=0.76 IWC=5/32 360 INT. ROOT GEO POST-IHSI

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-109

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(4)-4S
DESCRIPTION: RWCU INTERTIE RRC B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1RRU-031		45			1) SCAN 3 55% DAC MPL=0.76 IWC=0.280 360 INT. ROOT GEO PRE-IHSI
RRC-PB-109(L)	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-110

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(6)-4S
DESCRIPTION: RRC LOOP A DRAIN

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
2RRC(6)A-1	SUR	1RRP-008	ACC				NO RECORDABLE INDICATIONS
2RRC(6)A-2	SUR	1RRP-009	ACC				NO RECORDABLE INDICATIONS
RRC-PB-110(L)	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RRC-111

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(6)-4S
DESCRIPTION: RRC LOOP B DRAIN

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
2RRC(6)B-1							
	SUR	1RRP-010	ACC				NO RECORDABLE INDICATIONS
2RRC(6)B-3							
	SUR	1RRP-011	ACC				NO RECORDABLE INDICATIONS
RRC-PB-111(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RWCU-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RWCU(4)-4
DESCRIPTION: RPV DRAIN TO RWCU

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RWCU-1C-16							
	VT3H	1HV-0046	ACC				NO RECORDABLE INDICATIONS
RWCU-1C-9PS							
	VT3H	1HV-0046	ACC				NO RECORDABLE INDICATIONS
RWCU-926N							
	VT3H	1HV-0015	ACC				NO RECORDABLE INDICATIONS
RWCU-900N							
	VT3H	1HV-0015	ACC				NO RECORDABLE INDICATIONS
6RWCU(3)-27							
	VOL	1RTU-003		45			SCAN 2 0-180 DEGREE 100% DAC POSITION: L=0 W=0.31
	SUR	1RTP-001	ACC				NO RECORDABLE INDICATIONS
RWCU-PB-101(L)							
	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RWCU-301

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RWCU(3)-4
DESCRIPTION: RWCU PUMP SUCTION

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
6RWCU(3)-28	VOL	1RTU-002		45			1) SCAN 1 180-360 DEGREE 80% DAC POSITION: L=5.0 W=0.56 2) SCAN 2 180-360 DEGREE 60% DAC POSITION: L=4.2 W=1.55

WNP-02
INTERVAL: C1
PERIOD: 01
OUTAGE: R1
DRAWING NO. RWCU-303

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RWCU(2)-4
DESCRIPTION: RWCU HX RTN TO RFW

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
6RWCU(2)-9							
	VOL	1RTU-004	45				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-301

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(1)-2
DESCRIPTION: SW LOOP A SUPPLY

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-P-1A(CS)							
	VT3H	1HV-0001	ACC				NO RECORDABLE INDICATIONS
SW-78							
	VT3H	1HV-0012	ACC				NO RECORDABLE INDICATIONS
SW-121							
	VT3H	1HV-0014	ACC				NO RECORDABLE INDICATIONS
SW-202							
	VT3H	1HV-0015	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-302

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT DCW-HX-1A1
DESCRIPTION: SW LOOP A SUPPLY

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
DCW-HX-1A1(CS)							
	VT3H	1HV-0001	ACC				NO RECORDABLE INDICATIONS
DCW-HX-1A2(CS)							
	VT3H	1HV-0001	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-303

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(23)-2
DESCRIPTION: RETURN RHR-HX-1A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-153	VT3H	1HV-0024	ACC				NO RECORDABLE INDICATIONS
SW-151	VT3H	1HV-0016	ACC				NO RECORDABLE INDICATIONS
SW-212	VT3H	1HV-0016	ACC				NO RECORDABLE INDICATIONS
SW-149	VT3H	1HV-0014	ACC				NO RECORDABLE INDICATIONS
SW-150	VT3H	1HV-0014	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-304

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(37)-2
DESCRIPTION: RETURN DCW-HX-1A1&A2

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-353							
	VT3H	1HV-0001	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-305

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(2)-2
DESCRIPTION: SW LOOP B SUPPLY

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-P-1B(CS)							
	VT3H	1HV-0002	ACC				NO RECORDABLE INDICATIONS
SW-198							
	VT3H	1HV-0002	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-306

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT DCW-HX-1B1
DESCRIPTION: SW LOOP B SUPPLY

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
DCW-HX-1B1(CS)							
	VT3H	1HV-0002	ACC				NO RECORDABLE INDICATIONS
DCW-HX-1B2(CS)							
	VT3H	1HV-0002	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-308

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(38)-2
DESCRIPTION: SW LOOP B RETURN

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-251							
	VT3H	1HV-0003	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-309

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(70)-1.
DESCRIPTION: SW SUPPLY HPCS LOOP

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
HPCS-P-2(CS)							
	VT3H	1HV-0003				ACC	NO LOCKING DEVICES. EVALUATED TO BE ACCEPTABLE.

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-310

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(72)-1
DESCRIPTION: SW HPCS LOOP SUPPLY

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
DCW-HX-1C(CS)	VT3H	1HV-0004	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-312

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(10)-2
DESCRIPTION: SUPPLY TO FPC-HX-1A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-961N	VT3H	1HV-0016	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SW-313

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(12)-2
DESCRIPTION: RETURN TO RHR-HX-1A

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-960N							
	VT3H	1HV-0016	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. FPC-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(7)-1
DESCRIPTION: RET TO SUPPR POOL

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-903N							
	VT3H	1HV-0013	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. FPC-301

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(1)-1
DESCRIPTION: FUEL POOL CIRC/TK-1B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-86							
	VT3H	1HV-0025	ACC				NO RECORDABLE INDICATIONS
FPC-P-1A(CS)							
	VT3H	1HV-0025	ACC				NO RECORDABLE INDICATIONS
FPC-P-1B(CS)							
	VT3H	1HV-0025	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: C1
OUTAGE: R1
DRAWING NO. FPC-302

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC-HX-1A
DESCRIPTION: FPC-P-1A TO DM-1A&1B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-HX-1A(CS)							
	VT3H	1HV-0025	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. FPC-303

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC-HX-1B
DESCRIPTION: FPC-P-1B TO DM-1A&1B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-HX-1B(CS)							
	VT3H	1HV-0025	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. FPC-304

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC-DM-1A
DESCRIPTION: FPC-1A&1B DISCHARGE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-DM-1A(CS)							
	VT3H	1HV-0004				ACC	NO LOCKING DEVICES. EVALUATED AND FOUND TO BE ACCEPTABLE
FPC-112							
	VT3H	1HV-0004	ACC				NO RECORDABLE INDICATIONS
FPC-116							
	VT3H	1HV-0004	ACC				NO RECORDABLE INDICATIONS
FPC-DM-1B(CS)							
	VT3H	1HV-0004				ACC	NO LOCKING DEVICES. EVALUATED AND FOUND TO BE ACCEPTABLE

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. FPC-305

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(3)-1
DESCRIPTION: FPC-DM-1A RETURN

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-93	VT3H	1HV-0004	ACC				NO RECORDABLE INDICATIONS
FPC-226	VT3H	1HV-0026	ACC				NO RECORDABLE INDICATIONS
FPC-224	VT3H	1HV-0026	ACC				NO RECORDABLE INDICATIONS
FPC-223	VT3H	1HV-0026	ACC				NO RECORDABLE INDICATIONS
FPC-209	VT3H	1HV-0026	ACC				NO RECORDABLE INDICATIONS
FPC-210	VT3H	1HV-0026	ACC				NO RECORDALE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: G1
OUTAGE: R1
DRAWING NO. FPC-306

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC-P-3
DESCRIPTION: SUPPR POOL TO SUCT

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-P-3(CS)							
	VT3H	1HV-0007	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: C1
PERIOD: C1
OUTAGE: R1
DRAWING NO. FPC-307

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(8)-1
DESCRIPTION: FPC-P-3 DISCHARGE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-45							
	VT3H	1HV-0007	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. FPC-308

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(27)-1
DESCRIPTION: FPC-DM-1A/B TO TK-22

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-21							
	VT3H	1HV-0005	ACC				NO RECORDABLE INDICATIONS
FPC-22							
	VT3H	1HV-0005	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RCC-301

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCC(3)-2
DESCRIPTION: RCC SUPPLY TO P-1A/B

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCC-434							
	VT3H	1HV-0047	ACC				NO RECORDABLE INDICATIONS
RCC-440							
	VT3H	1HV-0047	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RCC-302

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCC(36)-1
DESCRIPTION: RCC RETURN HEADER

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCC-327							
	VT3H	1HV-0047	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. RCC-303

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCC(4)-2
DESCRIPTION: RCC SUPPLY-FPC-HX-1A

DATE 07/24/86

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCC-945N							
	VT3H	1HV-0027	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. CRD-201

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT CRD(12)-3
DESCRIPTION: CRD SCRAM DISCHARGE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
G306	VT3H	1HV-0016	ACC				NO RECORDABLE INDICATIONS
G500	VT3H	1HV-0017	ACC				NO RECORDABLE INDICATIONS
G613	VT3H	1HV-0017	ACC				NO RECORDABLE INDICATIONS
G319	VT3H	1HV-0017	ACC				NO RECORDABLE INDICATIONS
G323	VT3H	1HV-0017	ACC				NO RECORDABLE INDICATIONS
G501	VT3H	1HV-0017	ACC				NO RECORDABLE INDICATIONS
G513	VT3H	1HV-0018	ACC				NO RECORDABLE INDICATIONS
G327	VT3H	1HV-0018	ACC				NO RECORDABLE INDICATIONS
G503	VT3H	1HV-0018	ACC				NO RECORDABLE INDICATIONS
G333	VT3H	1HV-0018	ACC				NO RECORDABLE INDICATIONS
G339	VT3H	1HV-0018	ACC				NO RECORDABLE INDICATIONS
G504	VT3H	1HV-0019	ACC				NO RECORDABLE INDICATIONS
G519	VT3H	1HV-0019	ACC				NO RECORDABLE INDICATIONS
G506	VT3H	1HV-0019	ACC				NO RECORDABLE INDICATIONS
SDV-A(CS)	VT3H	1HV-0019	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. CRD-202

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT CRD(12)-3
DESCRIPTION: CRD SCRAM DISCHARGE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
G601	VT3H	1HV-0019	ACC				NO RECORDABLE INDICATIONS
G603	VT3H	1HV-0020	ACC				NO RECORDABLE INDICATIONS
G432	VT3H	1HV-0020	ACC				NO RECORDABLE INDICATIONS
G426	VT3H	1HV-0020	ACC				NO RECORDABLE INDICATIONS
G604	VT3H	1HV-0020	ACC				NO RECORDABLE INDICATIONS
G605	VT3H	1HV-0020	ACC				NO RECORDABLE INDICATIONS
G422	VT3H	1HV-0021	ACC				NO RECORDABLE INDICATIONS
G606	VT3H	1HV-0021	ACC				NO RECORDABLE INDICATIONS
G418	VT3H	1HV-0021	ACC				NO RECORDABLE INDICATIONS
G600	VT3H	1HV-0021	ACC				NO RECORDABLE INDICATIONS
G607	VT3H	1HV-0021	ACC				NO RECORDABLE INDICATIONS
G406	VT3H	1HV-0022	ACC				NO RECORDABLE INDICATIONS
G608	VT3H	1HV-0022	ACC				NO RECORDABLE INDICATIONS
SDV-B(CS)	VT3H	1HV-0022	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SLC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SLC(2)-4S
DESCRIPTION: SLC PUMP DISCHARGE

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SLC-PB-101(L)	VT-2	1VT2-86	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SLC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SLC(2)-4S
DESCRIPTION: MISC SNUBBERS

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SLC-4475-120							
	VT3H	1HV-0048	ACC				NO RECORDABLE INDICATIONS
SLC-4475-122							
	VT3H	1HV-0048	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. SLC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SLC-TK-1
DESCRIPTION: SLC

DATE 07/24/86

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMEIRY	SIGNIFICANT OTHER	REMARKS
SLC-TK-1(CS)							
	VT3H	1HV-0027				ACC	NO LOCKING DEVICES. EVALUATED AND FOUND TO BE ACCEPTABLE

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R1
DRAWING NO. MISC

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RWCU(3)-4
DESCRIPTION: MISC EXAMS NON-MAND.

DATE 07/24/86

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RWCU THRM SLEEVE	VOL	1RTU-001	45				NO RECORDABLE INDICATIONS

Repair/Replacment Listing
NIS-2 Owner's Reports

The following listing summarizes all ASME Section XI repairs or replacements performed between October 30, 1984 and June 12, 1986. Repairs/replacements performed prior to October 30, 1984 are summarized in the PSI Summary Report. For each repair/replacement the status of the NIS-2 Owner's Report is stated. For repairs/replacements undergoing review, a brief summary of the work performed is provided in place of the NIS-2 Owner's Report. The completed NIS-2 form will be submitted with a future ISI Summary Report.

WNP-2
Repair/Replacement Listing

PLAN NO.	COMPONENT NUMBER	DESCRIPTION OF COMPONENT	NIS-2 OWNER'S REPORT
2-0001 through 2-0032			PSI Summary Report.
2-0033	FPC-HX-1A&1B	Heat Exchangers	Work performed under plan No. 2-0217.
2-0034 through 2-0177			PSI Summary Report.
2-0178	X-77Aa	Containment Penetration	Not complete.
2-0179 through 2-0182			PSI Summary Report.
2-0183	PI(1)-45-X85d	Instrument Line	Plan voided. Work performed under plan No. 2-0267.
2-1084 through 2-0190			PSI Summary Report.
2-0191	Control Room Chiller	Instrument Line	RF86A Summary Report
2-0192			PSI Summary Report.
2-0193	HPCS(10)-4	Piping	RF86A Summary Report.
2-0194	FDR-TK-6 EDR-TK-2	Tanks	RF86A Summary Report.
2-0195 through 2-0206			PSI Summary Report.
2-0207	MS-PTD-1A&2B	Instrument Line	Work cancelled
2-0208	HY(58)-65		PSI Summary Report.
2-0209	PI(1)-ST(H22-P017) B16	Instrument Line	RF86A Summary Report.

PLAN NO.	COMPONENT NUMBER	DESCRIPTION OF COMPONENT	NIS-2 OWNER'S REPORT
2-0210	RCIC(12)-4CL1	Component Support	RF86A Summary Report.
2-0211	CSP-PS-51	Instrument Line	Plan voided. Not ASME Sec. XI Work.
2-0212	RCC(3)-1 RCC(36)-1	Piping	RF86A Summary Report.
2-0213	OG-DY-30A OG-DY-30B OG-DY-30C OG-DY-30D	Dessiccant Dryers	RF86A Summary Report.
2-0214	HD-TK-1A,1B,2A, 2B,2C,&2D	Tanks	Not ASME Sec. XI work.
2-0215	RCC(4)-2	Piping	RF86A Summary Report.
2-0216	PI(1)-ST-FPC-FT-17 PI(1)-ST-(IR-69)-10	Instrument Line Instrument Line	RF86A Summary Report. RF86A Summary Report.
2-0217	FPC-HX-1A FPC-HX-1B	Heat Exchangers and Piping	RF86A Summary Report.
2-0217-1	FPC(1)-1	Piping	RF86A Summary Report.
2-0218	SW(1)-2,SW(2)-2 SW(21)-2,SW(22)-2	Piping	Not complete.
2-0219	FPC(1)-1	Bolting Material	RF86A Summary Report.
2-0220	FPC(1)-1	Component Supports	RF86A Summary Report.
2-0221	RHR(1)-4B1	Piping	RF86A Summary Report.
2-0222	RFW(1)-4B	Piping	RF86A Summary Report.
2-0223	LPCS(1)-2	Instrument Line	RF86A Summary Report.
2-0224	SS-EV-1A	Evaporator	Not ASME Sec. XI work.
2-0225	RCC(3)-1 RCC(36)-1	Piping	RF86A Summary Report.
2-0226	RWCU-V-206A RWCU-V-206B	Valves	RF86A Summary Report.

PLAN NO.	COMPONENT NUMBER	DESCRIPTION OF COMPONENT	NIS-2 OWNER'S REPORT
2-0227	D220-3500-25.0-CMS-LT-2	Instrument Line	RF86A Summary Report.
2-0228	CAC-HR-1A CAC-HR-1B	Hydrogen Recombiner Piping	RF86A Summary Report.
2-0229	RWCU(1)-3 RWCU(3)-4	Piping	RF86A Summary Report.
2-0229-1	RWCU(1)-4	Piping	RF86A Summary Report.
2-0230	RHR-PS-16A,B,C RHR-PS-19A,B,C	Instrument Line	Not complete.
2-0231	RHR-P-2A	Seal cooler piping	Plan voided. Work performed under plan No. 2-0231R.
2-0231R	RHR-P-2A	Seal cooler piping	RF86A Summary Report.
2-0232	HY(1)-6S	Piping	RF86A Summary Report.
2-0233	4FPC(4)-1S-1 4FPC(4)-1S-2	Bolting Material	RF86A Summary Report.
2-0234	COND-HV-1A,1B,1C 5A & 5B	Heat Exchangers	Not ASME Sec. XI work.
2-0235	PI(1)-4S-X82b	Instrument Line	RF86A Summary Report.
2-0236	PI(1)-4S-X84a	Instrument Line	RF86A Summary Report.
2-0237	PI(1)-4S-X86A,B	Instrument Line	RF86A Summary Report
2-0237-1	PI(1)-4S-X86B	Instrument Line	RF86A Summary Report.
2-0238	PI(1)-4S-X87A PI(1)-4S-X87B	Instrument Line Instrument Line	RF86A Summary Report.
2-0239	PI(1)-ST-(IR-64)-9	Instrument Line	RF86A Summary Report.
2-0239-1	PI(1)-ST-(1R-64)-9	Instrument Line	RF86A Summary Report.
2-0240	PI(1)-ST-IR-63-10	Instrument Line	RF86A Summary Report.
2-0241	PI(1)-ST-(IR-64)-7	Instrument Line	RF86A Summary Report.
2-0242	MS-PTD-1A,1B	Instrument Line	Not complete.
2-0243	CIA-V-31A	Valve	RF86A Summary Report.
2-0244	RHR(1)-4B	Piping	RF86A Summary Report.

PLAN NO.	COMPONENT NUMBER	DESCRIPTION OF COMPONENT	NIS-2 OWNER'S REPORT
2-0245	RFW-V-32B	Valve	RF86A Summary Report.
2-0246	RWCU-HX-1A	Heat Exchanger	RF86A Summary Report.
2-0247	RFW-V-65A	Valve	Plan not implemented.
2-0248	RWCU-HX-1B	Heat Exchanger	RF86A Summary Report.
2-0249	SLC-V-4A SLC-V-4B	Valves	RF86A Summary Report.
2-0250	CSP(1)-1-4 CEP(1)-1-1	Piping	RF86A Summary Report.
2-0251	SW-V-92	Valve	RF86A Summary Report.
2-0252	RHR(55)-2	Piping	RF86A Summary Report.
2-0253	HY(1)-6S	Piping	RF86A Summary Report.
2-0254-1	RRC-P-1B	Piping	RF86A Summary Report.
2-0254-2	RRC-P-1B	Piping	RF86A Summary Report.
2-0255	FPC-V-149	Valve	Not complete.
2-0256	FPC-V-149	Valve	RF86A Summary Report.
2-0257	CEP(1)-1	Piping	RF86A Summary Report.
2-0258	PSR-V-X77A-1 PSR-V-X77A-2	Valves	RF86A Summary Report.
2-0258R1	PI(1)-4S-X77Ac	Piping	Not complete.
2-0259	B220-HGR-1006-33	Component Support	RF86A Summary Report.
2-0260	CEP(1)-1	Piping	RF86A Summary Report.
2-0261	RFW-V-32B	Valve	RF86A Summary Report.
2-0262	RWCU-V-4	Valve	RF86A Summary Report.
2-0263	PI(1)-ST(IR-67)-10 PI(1)-ST(IR-68)-9 PI(1)-ST(IR-69)-16 PI(1)-ST(IR-71)-12	Piping	Not complete.
2-0264	CMS-SR-14	Instrument Line	Not complete.

PLAN NO.	COMPONENT NUMBER	DESCRIPTION OF COMPONENT	NIS-2 OWNER'S REPORT
2-0265	CMS-SR-13	Instrument Line	Not complete.
2-0266	CMS-SR-13,14	Instrument Line	Not complete.
2-0267	Penetrations X-72, X-73	Piping	Not complete.
2-0268	Penetrations X-42, X-78	Piping	Not complete.
2-0269	Penetrations X-82, X-84	Piping	Not complete.
2-0270	CMS-SR-13	Instrument Line	Not complete.
2-0271	RHR-HX-2A	Heat Exchanger	RF86A Summary Report
2-0272	PSR-V-X77A3 PSR-V-X77A4	Valves	Not complete.
2-0273	HPCS(2)-1	Piping	Work not completed.
2-0274	RWCU-FT-15 RWCU-FT-41	Piping	Not complete.
2-0275	RHR-DPIS-9A,B,C	Instrument Line	Note issued.
2-0276	MSLC-FT-3A,3C	Instrument Line	Not complete.
2-0277	B35-G001A B35-G001B 4RRC(4)-45	Piping	RF86A Summary Report.
2-0278	RRC-P-1B	Seal Piping for Pump	Not complete.
2-0278R1	RRC-P-1B	Seal Piping for Pump	RF86A Summary Report.
2-0279	SW(21)-2 SW(22)-2	Piping	Plan not implemented.
2-0280	CIA-V-21	Valve	Not complete.
2-0280R1	CIA-V-21	Valve	RF86A Summary Report.
2-0280R2	CIA-V-21	Valve	RF86A Summary Report.
2-0281	PI(1)-ST-MSLC-PT10A PI(1)-ST-MSLC-PT10B PI(1)-ST-MSLC-PT10C PI(1)-ST-MSLC-PT10D	Piping	Plan not completed.

PLAN NO.	COMPONENT NUMBER	DESCRIPTION OF COMPONENT	NIS-2 OWNER'S REPORT
2-0282	PI-EFC-30A,F PI-EFC-29B,F	Piping	Not complete.
2-0283			Not ASME Sec. XI work.
2-0284	RHR(1)-4B1	Component Support	Not complete.
2-0285	CIA-V-33B	Valve	RF86A Summary Report.
2-0286	SW(21)-2 SW(22)-2	Component Support	Not complete.
2-0287	PI(1)-4S-X75A&B	Component Support	Not complete.
2-0288	RWCU-HX-1A	Heat Exchanger	RF86A Summary Report
2-0289	RCIC(13)-4CL2	Piping	Not complete.
2-0290	RCC(36)-1	Piping	Not complete.
2-0291	RHR(1)-4B RHR(1)-2B	Piping	Not complete.
2-0292	RCC(36)-1 RRC(51)-1	Piping	Not complete.
2-0293	MS-HX-1A	Heat Exchanger	Not ASME Sec. XI work.
2-0294	SW(1)-2UG	Piping	RF86A Summary Report
2-0295	FPC-V-104	Valve	RF86A Summary Report
2-0296	RCIC(13)-4CL2	Component Support	Not complete.
2-0297	MS(1)-4A,4B MS(1)-4C,4D	Component Support	Not complete.
2-0298	RCIC(1)-4CL1	Component Support	Not complete.
2-0299	RRC-P-1B	Seal Piping for Pump	RF86A Summary Report
2-0300	RRC-V-19	Valve	Not complete.
2-0301	RRC-V-20	Valve	Work not started.
2-0302	RCIC(12)-4CL2	Piping	RF86A Summary Report.

PLAN NO.	COMPONENT NUMBER	DESCRIPTION OF COMPONENT	NIS-2 OWNER'S REPORT
2-0303	MS(1)-4C	Piping	Not complete.
2-0304	RCIC(12)-4CL1	Component Support	Not complete.
2-0305	MS(1)-4C	Piping	Not complete.
2-0306	SS-EV-1A	Evaporator	Not ASME Sec. XI work.
2-0307	CAC(1)-1	Piping	Not complete.
2-0308	LPCS(3)-1	Piping	Not complete.
2-0309	RCIC(16)-1	Component Supports	Not complete.
2-0310	RCC(36)-1	Component Supports	Not complete.
2-0311	MS-(1)-4B	Component Supports	Not complete.
2-0312	SS-EV-1A	Evaporator	Not ASME Sec. XI work.
2-0313	SW-V-2B	Valve	Not complete.
2-0314	RRC-P-1B	Pump	RF86A Summary Report.
N/A	CCH-RV-2A CCH-RV-2B	Relief Valves	RF86A Summary Report.
N/A	RRC-P-1A RRC-P-1B	Pumps	RF86A Summary Report.
N/A	MS(1)-4B	Snubber	RF86A Summary Report.
N/A	FPC(5)-2	Snubber	RF86A Summary Report.
N/A	MS(1)-4D	Snubber	RF86A Summary Report.
N/A	MS(1)-4A	Snubber	RF86A Summary Report.
N/A	MS(1)-4C	Snubber	RF86A Summary Report.
N/A	RCIC(1)-4CL2	Snubber	RF86A Summary Report.
N/A	RCIC(2)-1	Snubber	RF86A Summary Report.
N/A	RHR(1)-2B	Snubber	RF86A Summary Report.
N/A	RHR(4)-1A	Snubber	RF86A Summary Report.

PLAN NO.	COMPONENT NUMBER	DESCRIPTION OF COMPONENT	NIS-2 OWNER'S REPORT
N/A	RRC(51)-4	Snubber	RF86A Summary Report.
N/A	SLC(2)-4S	Snubber	RF86A Summary Report.
N/A	MS(9)-4	Snubber	RF86A Summary Report.
N/A	RRC(3)-4S-A	Snubber	RF86A Summary Report.
N/A	RCIC(13)-4CL2	Snubber	RF86A Summary Report.
N/A	MS(1)-4B	Snubber	RF86A Summary Report.
N/A	CIA-RV-5A CIA-RV-5B	Relief Valves	RF86A Summary Report.
N/A	RCC-RV-34A RCC-RV-34B	Relief Valves	RF86A Summary Report.
N/A	RRC-P-1B	Pump	RF86A Summary Report.
N/A	LPCS-RV-18	Relief Valve	Not completed.

Plan No. 2-0178

Containment Penetration X77Aa

Repaired sleeve to pipe weld for penetration X-77Aa by welding. Performed PT examination on final weld. PT results were acceptable.

Plan No. 2-0191

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/25/86
3000 George Washington Way, Richland WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name)
3. Work Performed by Bechtel Power Corp. (Address) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland WA (Name)
4. Identification of System Instrument lines PI (1)-ST-SW-PS-11A and PI (1)-ST-SW-PS-11B (Address)
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 3

Description of Work Rerouted code stamped instrument lines PI (1)-ST-SW-PS-11A and PI (1)-ST-SW-PS-11B. The modification field work was performed as follows:

1) Cut and removed existing instrument tubing.
2) Installed new tubing material and valves as shown on the design drawings.
3) Made required socket welds.
4) Installed new supports.
5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 100 psi Test Temp Amb °F Component Design Pressure 216 psig Temp. 32 to 106°F

9. Remarks See attached NPV-1 Code Data Reports for the following serial numbered valves installed:
(Applicable Manufacturer's Data Reports to be attached)
Serial No. GP1015, 1158, 1354, 2056, 2205, 2207, 2212, 2222, GK-3002 and 3004.

* PI (1)-ST-SW-PS-11A
* PI (1)-ST-SW-PS-11B
JCI - Johnson Control, Inc.

Plan No. 2-0191

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed RKAN R. Wilson Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K Swiger 6/19/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/7 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/25/86 D. L. Vance (Inspector) Commissions 74470 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., 2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0191
S/N GP 1015

FORM N-1 MANUFACTURER'S DATA REPORT FOR NUCLEAR PIPING VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by DRAGON VALVES, INC. • 12457 Brookhurst Drive • Norwalk, CA. 90650 Order No. N20349S
(Name & Address of Manufacturer)

2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 Order No. X56056
(Name and Address)

3. Owner Washington Public Power Supply System, WPPSS Nuclear Project No. 2

4. Location of Plant Richland, Washington

5. Pump or Valve Identification Serial Numbers GP1001 thru GP1025 (25 Pcs.) (GP1015)

1/2 Inch Tube Socket Weld OS&Y Integral Bonnet, Globe Valve. Part Number 7N03CUMD.
(Brief description of service for which equipment was designed)

(a) Drawing No. 10580 Prepared by Dragon Valves, Inc.

(b) National Board No.

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

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

Edition 1974, Addenda Date 12-31-76, Case No.

Mark No.		Material Spec. No.	Manufacturer	Remarks
(a) Castings None				
(b) Forgings				
Body	HT 74843	SA182 Gr. F316	Ajax Forge Co.	
Yoke	HT 75463	SA182 Gr. F316	Ajax Forge Co.	

(1) For manually operated valves only

*Unpatterned sheets. Lists of Data, sketches or drawings may be used provided (1) [illegible] (2) each sheet is numbered [illegible]

FORM NPV-1 (back)

GP1015

Item No.	Material Spec. No.	Manufacturer	Notes
(c) Fittings None			
(d) Other Parts			
Disc HT 825582	SA564 Gr. 630	Carpenter Technology Corp.	

8. Hydrostatic test 3400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at not applicable

Design specifications certified by James F. Hagan, Jr. (1) Prof. Eng. State WA Reg. No. 13579

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

(1) Signature not required. List name only.

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

Date October 20, 1978 Signed DRAGON VALVES, INC. (Manufacturer) By R. L. Sinden

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 10-20-78, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 10-20-1978

G Warren (Inspector) Commissions Cal. 857 (National Board, State, Province and No.)

Printed in U.S.A.

Plan No. 2-0191
S/N 6P1158

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by DRAGON VALVES, INC. • 13457 Excelsior Drive • Norwalk, CA. 90650 Order No. N20149S
(Name & Address of Manufacturer)

2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 Order No. X56056
(Name and Address)

3. Owner Washington Public Power Supply System, WPPSS Nuclear Project No. 2

4. Location of Plant Richland, Washington

5. Pump or Valve Identification Serial Numbers GP1151 thru GP1175 (25 Pcs.) (GP1158)

1/2 Inch Tube Socket Weld OS&Y Integral Bonnet, Globe Valve. Part Number 7N058SWD.
(Brief description of service for which equipment was designed)

(a) Drawing No. 10580 Prepared by Dragon Valves, Inc.

(b) National Board No.

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

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

Edition 1974, Addenda Date 12-31-76, Case No.

Mark No.		Material Spec. No.	Manufacturer	Remarks
(a) Castings None				
(b) Forgings				
Body	HT 74843	SA182 Gr. F316	Ajax Forge Co.	
Yoke	HT 75463	SA182 Gr. F316	Ajax Forge Co.	

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

JCI CA 5

FORM NPV-1 (back)

GP 1158

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Disc. HT 825982	SA564 Gr. 630	Carpenter Technology Corp.	

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at not applicable

Design specifications certified by James F. Hagan, Jr. (1) Prof. Eng. State WA Reg. No. 13579

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

(1) Signature not required. List name only.

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

Date October 20, 19 78 Signed DRAGON VALVES, INC. (Manufacturer) By R L Snyder

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 10-20-1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 10-20-19 78

J H Warren (Inspector) Commissions Cal. 857 (National Board, State, Province and No.)

Printed in U.S.A.

Plan No. 2-0191

S/N 6P1354

1. Manufactured and certificate holder's data report for pumps or valves* as required by the Rules of the ASME Code, Section III, Div. 1.

2. Manufacturer [illegible] Valve Co., Inc., 13457 Firestone Blvd., Norwalk, CA [illegible]
(Name and address of manufacturer)

3. Installation [illegible] Co., Inc., P.O. Box 499, [illegible], WA 99352
(Name and address of purchaser)

4. Plant [illegible] 2 Hanford Works, Richland, WA 99352
(Name and address of plant)

5. Pump or Valve Valve Nominal Inlet Size 1/2 Tube (inch) Outlet Size 1/2 Tube (inch)

	(a) Manufacturer's Serial No. or Type	(b) Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) NB Cd. No.	(g) Year Built
(1)	[illegible]	6P1338	None	10580	2	None	1981
(2)		[illegible]					
(3)		6P1362					
(4)							
(5)		(6P1354)					
(6)							
(7)							
(8)							
(9)							
(10)							

6. DSSY Instrumentation Valves (25 Pcs.)
(Brief description of service for which equipment was designed)

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

Cold Working Pressure 3600 psi at 100°F.

Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Ajax Forge Co.	HT 343301
Yoke	ASME SA182 Gr. F316	Ajax Forge Co.	HT 77942

Q A
RECEIVED
BY [illegible]
DATE 6-16-81

(1) For manually operated valves only.

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

(10/79)

Item No.	Material Spec. No.	Manufacturer	Remarks
(d) Other Parts			
Disc	ASME SA564 Gr. 630	Carpenter Tech.	HT-C10503

2. Hydrostatic test 5400 psi. Disk Differential test pressure _____ psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974 Addenda 5-30-75 (Date); Code Case No. None Date May 18, 1981

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (N) symbol expires 5-30-81 (Date).

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report (Class 1 only) on file at not applicable

Design specifications certified by (1) David J. Murphy

PE State MA Reg. No. 12542

Stress analysis certified by (1) not required

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on May 28, 1981, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date May 28 1981.

[signature] Inspector Commissions CA 656 (Nat'l Bd., State, Prov. and No.)

Plan No. 2-0191
S/N GP2056

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

1. Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650
(Name and Address of N Certificate Holder)
2. Manufactured for Johnson Controls, Inc., P. O. Box 429, Richland, WA 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation WNP2 Hanford Jobsite, Richland, WA 99352
(Name and Address)
4. Pump or Valve Valve. Nominal Inlet Size 1/2 Tube (inch) Outlet Size 1/2 Tube (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	7N058SWD	GP2056	None	10580	2	None	1982
(2)		thru					
(3)		GP2080					
(4)							
(5)		(GP2056)					
(6)							
(7)							
(8)							
(9)							
(10)							

5. OS&Y Instrumentation Valves (25 Pcs.)
(Brief description of service for which equipment was designed)

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class _____ (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Ajax Forge Co.	HT 843891
Yoke	ASME SA182 Gr. F316	Ajax Forge Co.	HT 73403

(1) For manually operated valves only.

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

FORM NPV-1 (back)

GP 2056.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None				
(d) Other Parts				
Disc	HT 825982	SA564 Gr. 630	Carpenter Technology Corp.	

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at not applicable

Design specifications certified by James F. Hagan, Jr. (1) Prof. Eng. State WA Reg. No. 13579

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

(1) Signature not required. List name only.

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

Date October 20, 19 78 Signed DRAGON VALVES, INC. (Manufacturer) By [signature]

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 10-20-19 78, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 10-20-19 78

[signature] (Inspector) Commissions Cal. 857 (National Board, State, Province and No.)

(Form NPV-1 (back))

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Disc	ASME SA564 Gr. 630	Carpenter Steel	HT 84060J

9. Hydrostatic at 5600 psi. Disk Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda 12-31-76 (Date), Code Case No. None, Date December 1, 1983

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (Stamp) symbol expires 5-6-84 (Date)

CERTIFICATION OF DESIGN

Design Information on file at Washington Public Power Supply System

Stress analysis report (Class 1 only) on file at not applicable

Design specifications certified by (1) James F. Hagan, Jr.

PE State NA Reg. No. 13579

Stress analysis certified by (1) not required

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on 12-2-83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 12-2- 19 83

[signature] (Inspector) Commissions CA 1338 (Nat'l Bd., State, Prov. and No.)

FOR INFORMATION ONLY

PVAW No. 2-0191
S/N GP2205 & 2207.

FORM NPV-1 N CERTIFICATE HOLDER'S DATA REPORT FOR NUCLEAR POWER VALVES*

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

1. Manufactured by Dragon Valves, Inc., 13537 Excelsior Dr., Norwalk, CA 90650 (Name and Address of N Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, WA 99352 (Name and Address of Purchaser or Owner)
3. Location of Installation WNP-2, Hanford Reservation, Richland, WA 99352 (Name and Address)
4. Pump or Valve Valve, Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	7N058SWD	GP2201	None	10580	2	None	1983
(2)		thru					
(3)		GP2209					
(4)							
(5)							
(6)		(GP2205, GP2207)					
(7)							
(8)							
(9)							
(10)							

5. Instrument Valves (9 Pcs.) (Brief description of service for which equipment was designed)
6. Design Conditions 3600 psi (Pressure) 100 (Temperature) °F or Valve Pressure Class _____ (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.*	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Ajax Forge Co.	HT 343801
Yoke	ASME SA182 Gr. F316	Ajax Forge Co.	HT 75463

(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 on Items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Pump No. 2-0191
S/N GP 2212 & 2222

FOR INSPECTION ONLY

(Form NPV-1 back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(d) Casing None			
(e) Other Parts			
Disc	ASME SA564 Gr. 630	Carpenter Steel	HT 840603

8. Hydrostatic test 3600 psi. Disk Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda 12-31-76 (Date), Code Case No. None. Date December 1, 1983

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (Stamp) symbol expires 3-6-84 (Date)

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System

Stress analysis report (Class 1 only) on file at not applicable

Design specifications certified by (1) James F. Hagan, Jr.

PE State VA Reg. No. 13579

Stress analysis certified by (1) not required

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on 12-2 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 12-2 19 83

[signature] (Inspector) Commissions CA 1338 (Nat'l Bd., State, Prov. and No.)

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

1. Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650 (Name and Address of N Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, WA 99352 (Name and Address of Purchaser or Owner)
3. Location of Installation WNP-2, Hanford Jobsite, Richland, WA 99352 (Name and Address)
4. Pump or Valve Valve. Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	2N0585VD	GP2210	None	10580	2	None	1983
(2)		thru					
(3)		GP2225					
(4)							
(5)		(GP2211, GP2221)					
(6)							
(7)							
(8)							
(9)							
(10)							

5. Instrument Valves (16 Pcs.) (Brief description of service for which equipment was designed)
6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class _____ (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Alex Forge Co.	HT 74863
Yoke	ASME SA182 Gr. F316	Alex Forge Co.	HT 75463

(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 8 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.

(10/71) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Plan No. 2-0191

S/N GK 3002 & 3004

1. Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650 (Name and Address of N Certificate Holder)
2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 (Name and Address of Purchaser or Owner)
3. Location of Installation Hanford Plant, Unit No. 2, Richland, WA 99352 (Name and Address)
4. Pump or Valve Valve — Nominal Inlet Size 1/4 (inches) — Outlet Size 1/2 (inches)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Condition Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd No.	(g) Year Built
(1)	40N258SW7D-10	GK3001	None	12952	2	None	1983
(2)		thru					
(3)		GK3003					
(4)							
(5)							
(6)		GK3002, GK3004					
(7)							
(8)							
(9)							
(10)							

5. 3-Valve Instrument Manifolds (5 Pcs.) (Brief description of service for which equipment was designed)
6. Design Conditions 3600 (pressure) psi 100 (temperature) °F or Valve Pressure Class ____ (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Crucible Steel Co. Mfg.	HT A10826

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Disc	ASME SA564 Gr. 630	Armco Steel	HT 616080
Bonnet	ASME SA479 TY 316	Universal-Cyclops	HT 16[illegible]
Plug, 1/8"	ASME SA479 TY 316	Carpenter Steel	HT 851169
Plug, 1/4"	ASME SA479 TY 316	Carpenter Steel	HT 847075

9. Hydrostatic test 5400 psi. Disk Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda 12-31-76 (Date), Code Case No. None, Date July 20, 1983

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (symbol) symbol expires 3-6-84 (Date)

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report (Class 1 only) on file at not applicable

Design specifications certified by (1) Stanley Fox

PE State UA Reg. No. 16168

Stress analysis certified by (1) not required

PE State ____ Reg. No. ____

(1) Signature not required. Use name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DISI of CALIFORNIA have inspected the pump, or valve, described in this Data Report on July 1, 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date July 1, 19 83. Signed [signature] Commissions CA 656 (Nat'l Bd., State, Prov. and No.)

(1) For manually operated valves only

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

(10/77) This form (E00032) may be obtained from the ASME, 345 E. 47th St., New York, NY 10017

Plan No. 2-0193

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System High Pressure Core Spray (HPCS)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HPCS-(1)-4CL2	WPPSS	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2/3

7. Description of Work Modified code stamped high pressure core spray (HPCS) piping system HPCS-(1)-4CL2. The modification field work was performed as follows:

1) Cut existing piping and valve at locations shown on the design drawings.
2) Repreped piping, fitting and valve ends for rewelding. PT examined valve preped end.
3) Installed piping, fittings, existing valve and new valves as shown on the design drawings.
4) Made required socket welds and circumferential butt welds.
5) Performed PT examination on the final socket welds and RT examination on the final circumferential butt welds. PT and RT examination results acceptable.
6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Test Pressure 1969 psig Test Temp Amb °F Component Design Pressure 1575 psig Temp. 212°F
225 psig 150 psig 150°F
9. Remarks See attached NPV-1 code data reports for the following new valves installed:
(Applicable Manufacturer's Data Reports to be attached)

- o HPCS-V-101, S/N IN244
- o HPCS-V-601, S/N 62909

WPPSS - Washington Public Power Supply System
* HPCS(1)-4CL2-P2

Plan No. 2-0193

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K Bright 6/19/86.

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on MARCH 27 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

WAS CRD-V-186, CHANGED TO SPA-V-288, NOW HPCS-V-101

K Gumpf 3/14/84

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

As Required by the Provisions of the ASME Code Rules

Plan No. 2-0193
S/N 1N244

1. Manufactured by ANCHOR/DARLING VALVE CO. HAYWARD, CA. (Name & Address of Manufacturer) Order No. 4513-18

2. Manufactured for BURNS & ROE, INC. HEMPSTEAD, NEW YORK (Name and Address) Order No. 41B

3. Owner WASHINGTON PUBLIC POWER SUPPLY SYSTEM

4. Location of Plant 11 MILES NORTH OF RICHLAND, WASHINGTON

5. Pump or Valve Identification SERIAL # 1N244 3" 900# SWING CHECK HPCS-V-101

ASME SECTION III

(Brief description of service for which equipment was designed)

STEAM AND WATER SERVICE IN A COMMERCIAL NUCLEAR POWER PLANT

(a) Drawing No. 2627-3 Prepared by H.A. SOLYAN

(b) National Board No. NA

6. Design Conditions 2160 / 1410 (Pressure) psi 100 / 700 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1971, Addenda Date WINTER '72, Case No.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
BODY HT. 8004E SN 33	SA216 WCB	ANCHOR/DARLING	VULCAN
(b) Forgings			

FOR INFORMATION ONLY

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items, 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

0 2 0 0 1 0 2 4 7

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
BONN HT 62287-12-1 SN A	SA515 Gr.70	ANCHOR/DARLING	KAISER
DISC HT.62287-12-1 SN A	SA515 Gr.70	ANCHOR/DARLING	KAISER
R.R.GASKET HT.43266-11-2	SA515 Gr.70	ANCHOR/DARLING	KAISER
STUFFING BX.HT.60002	SA479-410	ANCHOR/DARLING	CARTECH
HINGE PIN HT. 822340	A479 Ty410	ANCHOR/DARLING	CARTECH

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at WASHINGTON PUBLIC POWER SUPPLY SYSTEM RICHLAND, WASH.

Stress analysis report on file at RA

Design specifications certified by D.J. MURPHY (1) Prof. Eng. State WASH Reg. No. 13542

Stress analysis report certified by S.T. YAMAHARA (1) Prof. Eng. State CA Reg. No. 23521

(1) Signature not required. List name only.

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

Date 6-28 19 77 Signed ANCHOR/DARLING CO. (Manufacturer) By B. J. Tillman

Certificate of Authorization No. N-1742 expires MAY 20, 1980

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by LUMBERMENS MUTUAL of LONG GROVE, ILLINOIS have inspected the equipment described in this Data Report on 6-28 19 77 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

FOR INFORMATION ONLY

Date 6-28 19 77

John Powell (Inspector) Commissions CA 1309 (National Board, State, Province and No.)

Plan No. 2-0193 S/N 62907

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)

2. Manufactured for Bovee & Crail/G.E.R.I., P.O. Box 1040, Richland, Washington 99352
(Name and Address of Purchaser or Owner)

3. Location of Installation Richland, Washington WPPSS Hanford #2 Job Site
(Name and Address)

4. Pump or Valve Globe Valve. Nominal Inlet Size 3/4 (inch) Outlet Size 3/4 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	62904 thru	N/A	136CAC1-001	3	N/A	1980
(2)		62921					
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

S/N 62909 FOR HPCI-V-601

L Swift 3/18/82

5. The valves are designed to handle a fluid media which includes steam, water condensate, borated water, etc., associated with a PWR and BWR. The temperature pressure rating of the media is stated below.
(Brief description of service for which equipment was designed)

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class N/A (1)

7. Cold Working Pressure 3600 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 4L50	Colmonoy #4	Rex Precision	
(b) Forgings			
Body-Code 4G81	SA105	Kawaguchi	
Bonnet-Code 4K96 1X22	SA105	Compton Forge	
* 4M18		*Mattco Forge	

MAR 29 1982

(1) For manually operated valves only.

WBG BR 215-15027

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

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

3

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Setting N/A			
(d) Other Parts			
Pipe Plug-Code 1A85	SA105	Compton Forge	

9. Hydrostatic test 3400 psi. Disk Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974, Addenda Summer '75 (Date), Code Case No. N/A, Date 12/18/80

Signed Nuclear Valve Div., Borg Warner (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1254 to use the N (N) symbol expires 10/27/81 (Date)

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) N/A

PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 12/18 19 80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 12/18 19 80

[signature] (Inspector) Commissions 1275 CA. (Nat'l Bd., State, Prov. and No.)

Plan No. 2-0194

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No...etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Radwaste Collection Tanks EDR-TK-2 and FDR-TK-6
5. (a) Applicable Construction Code ASME III 19 71 Edition, W71 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
EDR-TK-2	CB&I	S-1119	4085	N/A	N/A	1975	Modified	Yes, Class 3
FDR-TK-6	CB&I	S-1123	4089	N/A	N/A	1975	Modified	Yes, Class 3

7. Description of Work Modified code stamped radwaste collection tanks EDR-TK-2 and FDR-TK-6. The modification field work was performed as follows:

1) Spared existing 4" nozzles in each of the tanks by cutting elbow and associated piping material, welded on the weld neck flange to the tank nozzle, installed new blind flange, installed bolting material and torqued the flange bolting material to the required torque values.
2) Removed existing 2" nozzle from each of the tanks and welded on the new 4" tank nozzle, nozzle reinforcement pads, elbolet and associated piping material.
3) Performed MT examination on the final welds. MT examination results acceptable.
4) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Test Pressure * psig Test Temp Amb °F Component Design Pressure Head psig Temp. 140°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* Filled the tanks with water to overflow connection on the tank with "0" psi in the air space.

CB&I - Chicago Bridge and Irow Co.

Plan No. 2-0194

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R Weber Plant Technical Manager 6/25/ ,1986
(Owner or Owner's Designee) Title (Date)

K Swick 4/11/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on DEC. 11 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No.. 2-0209

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Instrument Line PI(1)-ST(H22-P017)-B6
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced non traceable material in code stamped Instrument Line PI(1)-ST(H22-P017)-B16. The replacement field work was performed as follows:
1) Removed existing non traceable material.
2) Installed new traceable tubing material and support material.
3) No welding was performed. All joints were made as threaded joints.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*PI(1)-ST(H22-P017)-B16
JCI - Johnson Control Inc.

Plan No. 2-0209

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed R. Weber Plant Technical Manager 6/25 , 19 86
(Owner or Owner's Designee) Title (Date)

K. Ewer 6/19/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on DEC. 8, 19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0210

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Core Isolation Cooling (RCIC)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308, 71 & 224-1
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC(12)-4CL1	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 1 (NF)

7. Description of Work Modified pipe support RCIC-970S on code stamped Reactor Core Isolation Cooling (RCIC) piping system RCIC(12)-4CL1. The modification field work was performed as follows:
1) Removed existing support.
2) Modified support by cutting and welding support material.
3) Performed visual examinations on the final welds. Visual examination results were acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System
* RCIC(12)-4CL1-P1

Plan No. 2-0210

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R Evans R Illinois Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K Gruell 6/19/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on DEC. 11 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0212

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Building Closed Cooling (RCC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCC(3)-1	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 3
RCC(36)-1	WPPSS	**	N/A	N/A	N/A	1983	Modification	Yes, Class 3

Description of Work Modified code stamped Reactor Building Closed Cooling (RCC) Piping Systems RCC(3)-1 and RCC(36)-1. The modification field work was performed as follows:
1) Removed existing threaded vent/drain connections (valves RCC-V-120D and RCC-V-122D) from threaded nipple.
2) Installed 3/8" plugs on both threaded nipples.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks NONE
(Applicable Manufacturer's Data Reports to be attached)

* RCC(3)-1-P1
** RCC(36)-1-P1

Plan No. 2-0212

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K. Smith 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on Nov. 15 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 [signature] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/1/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Off Gas Tanks OG-DY-30A, 30B, 30C, and 30D
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
OG-DY-30A	COS	74-56014-1	N/A	N/A	N/A	1975	Modification	Yes, Class 3
OG-DY-30B	COS	74-56014-2	N/A	N/A	N/A	1975	Modification	Yes, Class 3
OG-DY-30C	COS	74-56014-3	N/A	N/A	N/A	1975	Modification	Yes, Class 3
OG-Dy-30D	COS	74-56014-4	N/A	N/A	N/A	1975	Modification	Yes, Class 3

7. Description of Work Modified code stamped Off Gas Tanks OG-DY-30A, 30B, 30C, and 30D. The modification field work was performed as follows:

1) The diaphragm plate on tank nozzle (loading nozzle) was seal welded for each of the tanks.
2) Performed visual examination on each of the seal welds. Visual examination results were acceptable.
3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 3/4 psi g Test Temp Amb °F Component Design Pressure 350 psig Temp. 500°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

COS - Cosmodyne Co.

Plan No. 2-0213

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K. Smith 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on May 14 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 [signature] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0215

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corp. (Name) C-20069 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Address)
4. Identification of System Reactor Building Closed Cooling (RCC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCC(4)-2	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 3

7. Description of Work Modified reactor building closed cooling (RCC) line RCC(4)-2. The modification field work was performed as follows:

1) Cut existing piping.
2) Beveled cut pipe ends for rewelding.
3) Installed piping and made circumferential butt welds and socket welds.
4) Performed MT examination on the final circumferential butt welds. MT examination results acceptable.
5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ]
Test Pressure 405 psig Test Temp 77 °F Component Design Pressure 300 psig Temp. 150°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System
* RCC(4)-2-P1

Plan No. 2-0215

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K Swan 6/19/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on SEPT. 9 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [signature] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0216

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86.
3000 George Washington Way, Richland, Washington 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-20069 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Address)
4. Identification of System Instrument lines PI (1)-ST-FPC-FT-17 and PI (1)-ST-(IR-69)-10
5. (a) Applicable Construction Code ASMEIII 19 74 Edition, W75 Addenda, Code Cases NONE
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Replacement	Yes, Class 3
*	JCI	*	N/A	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work Rerouted instrument lines PI(1)-ST-FPC-FT-17 and PI(1)-ST-(IR-69)-10. The replacement (rerouting) work was performed as follows -
1. Cut and removed existing instrument tubing
2. Installed new tubing material
3. Made required socket welds
4. Installed new supports

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*PI(1)-ST-FPC-FT-17 and PI(1)-ST-(IR-69)-10
JCI - Johnson Control Inc.

Plan No. 2-0216

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed R Weber (Owner or Owner's Designee) Plt. Tech. Mgr. Title 7/16/ (Date) ,19 86

R Swes 7/15/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the REPLACEMENT (Repair(s) or Replacement(s)) described in this Report on 12/3 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0217
FPC-HX-1A
FPC-HX-1B

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, Washington (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash.Way,Richland,WA (Address)
4. Identification of System Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASMEIII 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FPC-HX-1A	SWC	*	N/A	N/A	N/A	1975	Alteration	Yes, Class 3
FPC-HX-1B	SWC	*	N/A	N/A	N/A	1975	Alteration	Yes, Class 3

7. Description of Work Fuel Pool Cooling (FPC) heat exchangers FPC-HX-1A and FPC-HX-1B were altered. The alteration work was performed as follows:
1. Removed existing 150# rated flanges from shell side N3 and N4 nozzles and replaced with 300# rated flanges.
2. Installed reinforcement pads around N1, N2, N3 and N4 nozzles.
3. Installed reinforcement rings on shell side vapor belt.
4. Installed tube sheet support plate and stiffeners on channel divider plate.
5. Performed NDE examinations on final welds. NDE examination results acceptable.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
Test Pressure H405 P50 psi Test Temp 70 80 °F Component Design Pressure 270 psig Temp. 150°F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

SWC-Struthers Wells Corporation
*FPC-HX-1A, S/N 1-72-06-31350-1
FPC-HX-1B, S/N 1-72-06-31350-2

(H) Hydrostatic Test
(P) Pneumatic Test

Plan No. 2-0217
FPC-HX-1A
FPC-HX-1B

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this alteration conforms to Section XI of the ASME Code.

Signed [illegible] (Owner or Owner's Designee) Plant Tech. Mgr. (Title) 7/16 (Date) .19 86

K. Ennis 7/16/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the alteration (Repair(s) or Replacement(s)) described in this Report on 1/2 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447-W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0217
Piping

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Wash. Way, Richland, Washington (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Closed cooling (RCC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 , W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCC(4)-2	WPPSS	*	N/A	N/A	N/A	1983	Alteration	Yes, Class 3
RCC(5)-2	WPPSS	*	N/A	N/A	N/A	1983	Alteration	Yes, Class 3

7. Description of Work Reactor Closed Cooling (RCC) lines going to FPC-HX-1A and FPC-HX-1B nozzles N-3 and N-4 were altered. The alteration work was performed as follows -
1. Removed existing 150# rated flanges from piping connections connected to FPC-HX-1A and FPC-HX-1B nozzles N-3 and N-4 and replaced with 300# rated flanges
2. Performed NDE examinations on the final welds. NDE examination results acceptable.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Test Pressure 405 psi Test Temp 70 °F Component Design Pressure 270 psig Temp. 150 °F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*RCC(4)-2-P1
*RCC(5)-2-P1

Plan No. 2-0217
Piping

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this alteration conforms to Section XI of the ASME Code.

Signed R Luebrin (Owner or Owner's Designee) Plant Tech. Mgr. (Title) 7/16/ (Date) .19 86

Y Swift 7/15/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the alteration (Repair(s) or Replacement(s)) described in this Report on 1/2 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No..2-0217-1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FPC(1)-1	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 3

7. Description of Work Modified fuel pool cooling (FPC) lines FPC(50)-1 and FPC (51)-1 by adding flanges. The modification field work was performed as follows:

1) Cut existing piping.
2) Installed flanges.
3) Made required socket welds.
4) Torqued flange joints to the required torque values.
5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 100 psig Test Temp Amb °F Component Design Pressure 150 psig Temp. 175°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System
* FPC(1)-1-P1

Plan No. 2-0217-1

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/25 19 86
(Owner or Owner's Designee) Title (Date)

K. Smith 6/19/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on OCT. 18, 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0218

SW(1)-2,
SW(2)-2
SW(21)-2
SW(22)-2

Rerouted service water piping to and from fan coil units RRA-CC-19 and RRA-CC-20. Made required welds.

Plan No. 2-0219

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FPC(1)-1	WPPSS	*	N/A	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work Replaced bolting material for the flanged joint in fuel pool cooling (FPC) system. The replacement work was performed as follows:
1) Removed studs and nuts, one at a time, and replaced it with new stud and nut material.
2) Torqued the bolting material to the required torque value.
3) Pressure test to reconfirm pressure boundary integrity on the flanged joint was not performed because the pressure boundary integrity was preserved by means of removing, replacing and torquing one stud at a time.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System
* FPC(1)-1-P1

Plan No. 2-0219

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed R Lane R C Webb Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

R Swen 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on April 16 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., 2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0220

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FPC(1)-1	WPPSS	*	N/A	N/A	N/A	1983	Modified	Yes, Class 3

7. Description of Work Modified supports FPC-243 and FPC-246 for fuel pool cooling system. The modification field work was performed as follows:
1) Installed pipe lugs by welding for both the pipe supports.
2) Performed modification work by welding on balance of the non-NF portion of both the supports.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* FPC(1)-1-P1

Plan No. 2-0220

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed Plans [signature] Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

K. Swizer 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois, have inspected the modification (Repair(s) or Replacement(s)) described in this Report on Aug. 8 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed, or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. F. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0221

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(1)-4B1	WPPSS	*	N/A	N/A	N/A	1983	Repaired	Yes, Class 1

7. Description of Work Repaired field welds in residual heat removal (RHR) piping system RHR(1)-4B1. The field welds were repaired as follows:
1) Cut field welds.
2) Preped the SOL and valve end.
3) Performed PT examination on the preped ends. PT examination results acceptable.
4) Installed new piping spool piece and made required field welds.
5) Perform PT examination on the final socket welds. PT examination results acceptable.
6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ *
Test Pressure 400 psig Test Temp N/A °F Component Design Pressure 1250 psig 1550 psig Temp. 575°F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* The reactor pressure at the time of the visual inspections was at 400 psig.

WPPSS - Washington Public Power Supply System
* RHR(1)-4B1-P1

Plan No. 2-0221

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed R. Wahl Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

K. Gruzla 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on FEB. 4 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0222

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Feedwater (RFW) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RFW(1)-4B	WPPSS	*	N/A	N/A	N/A	1983	Repaired	Yes, Class 1

7. Description of Work Repaired field weld in reactor feedwater (RFW) piping system RFW(1)-4B. The field weld was repaired as follows:
1) Cut field weld.
2) Preped the SOL end.
3) Performed PT examination on the preped end. PT examination result acceptable.
4) Made required field weld.
5) Performed PT examination on the final socket weld. PT examination result acceptable.
6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ *
Test Pressure 400 psig Test Temp N/A °F Component Design Pressure 1300 psig Temp. 575°F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* The reactor pressure at the time of the visual inspection was at 400 psig.

WPPSS - Washington Public Power Supply System
* RFP(1)-4B-P2

Plan No. 2-0222

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

[signature] 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on FEB. 4 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 [signature] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0223

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Low Pressure Core Spray (LPCS) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LPCS(1)-2	WPPSS	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2

7. Description of Work Rerouted instrument tubing from LPCS-V-705 to LPCS-P1-1 and LPCS-P1-9. The modification field work was performed as follows:
1) Cut and removed existing instrument tubing.
2) Installed new tubing material and valves.
3) Made required socket welds.
4) Performed PT examination on the final socket welds. PT examination results acceptable.
5) Installed new supports.
6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 465 psig Test Temp Amb °F Component Design Pressure 470 psig Temp. 212°F
9. Remarks See attached NPV-1 Code Data Reports for the following serial numbered valves installed.
(Applicable Manufacturer's Data Reports to be attached)
Serial Numbers - GP-1211, 1223, 1225, 1229, 1240 and 1242.

* LPCS(1)-2-P1

Plan No. 2-0223

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R Rane R Webber (Owner or Owner's Designee) Plant Technical Manager (Title) 6/25 (Date) ,19 86

K Smith 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on SEPT. 10 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

ASME Section XI plan
NO. 2-0223 [illegible]

MANUFACTURER'S DATA REPORT FOR NUCLEAR CUTOFF VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by DRAGON VALVES, INC. • 11757 Firestone Blvd • Norwalk, CA. 90650 Order No. N20149T Suppl. #1
(Name and Address of Manufacturer)

2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 Order No. X56056 C/O #1 & 2
(Name and Address)

3. Owner Washington Public Power Supply System, WPPSS Nuclear Project No. 2

4. Location of Plant Richland, WA

5. Pump or Valve Identification Serial Numbers GP1228 thru GP1232, GP1234, GP1235 and GP1237 thru GP1254 (25 Pcs.)
1/2 Inch Instrument Valve, OS&Y. Part Number 7K637SW7D. GP1240 GP1242 GP1229
(Brief description of service for which equipment was designed)

(a) Drawing No. 10580 Prepared by Dragon Valves, Inc. [illegible] 3/13/85

(b) National Board No.

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

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1974, Addenda Date 12-31-76, Case No.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body HT 74843	SA182 Gr. F316	Ajax Forge, Inc.	
Yoke HT 75463	SA182 Gr. F316	Ajax Forge, Inc.	

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in Items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

GP 1229
GP 1240
GP 1249

Item No.	Material Spec. No.	Manufacturer	Remarks
(c) Other Parts			
Disc	ST 825982	SA564 Gr. 630	Carpenter Technology Corp.

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at Johnson Controls, Inc.

Design specifications certified by James F. Hagan, Jr. (1) Prof. Eng. State WA Reg. No. 13579

Stress analysis report certified by Kenneth Foster (1) Prof. Eng. State CA Reg. No. 12564

(1) Signature not required. List name only.

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

Date May 14, 1979 Signed DRAGON VALVES, INC. (Manufacturer) By [signature]

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 5-14-1979, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 5-14-1979

[signature] (Inspector) Commissions Cal. 857 (National Board, State, Province and No.)

Printed in U.S.A.

ASME Section XI Plan
No 2-0223 K Smith

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by DRAGON VALVES, INC. • 13157 Excelsior Drive • Norwalk, CA. 90650 Order No. N20149T Suppl. #1
(Name & Address of Manufacturer)

2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 Order No. X56056 C/O #1 & 2
(Name and Address)

3. Owner Washington Public Power Supply System, WPPSS Nuclear Project No. 2

4. Location of Plant Richland, WA

5. Pump or Valve Identification Serial Numbers GP1118, GP1201, GP1203 thru GP1213, GP1215 thru GP1217 and GP1219 thru GP1227 (25 Pcs.)
1/2 Inch Instrument Valve, OSMX. Part Number 7.10575M7D. GP 1211 GP 1225 GP 1223
(Brief description of service for which equipment was designed)

(a) Drawing No. 10580 Prepared by Dragon Valves, Inc. K Smith 3/13/85

(b) National Board No.

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

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1974, Addenda Date 12-31-76, Case No.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	None			
(b) Forgings				
Body	HT 74843	SA182 Gr. F316	Ajax Forge, Inc.	
Yoke	HT 75463	SA182 Gr. F316	Ajax Forge, Inc.	

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (back)

GP-21
GP-223
GP-322

	Heat No.	Material No.	Manufacturer	
(c)				
(d) Other Parts				
Disc	HT 825982	SA564 Gr. 630	Carpenter Technology Corp.	

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at Johnson Controls, Inc.

Design specifications certified by James F. Hagan, Jr. (1) Prof. Eng. State WA Reg. No. 13579

Stress analysis report certified by Kenneth Foster (1) Prof. Eng. State CA Reg. No. 12564

(1) Signature not required. List name only.

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

Date May 14, 19 79 Signed DRAGON VALVES, INC. (Manufacturer) By [signature]

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 5-14- 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 5-14 19 79

[signature] (Inspector) Commissions Cal. 857 (National Board, State, Province and No.)

Printed in U.S.A.

Plan No. 2-0225

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Building Closed Cooling (RCC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCC(3)-1	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 3
RCC(36)-1	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 3

7. Description of Work Modified code stamped reactor building closed cooling (RCC) piping systems RCC(3)-1 and RCC(36)-1. The modification field work was performed as follows:

1) Removed existing threaded vent/drain connections from threaded nipples.
2) Installed 3/8" plugs on each one of the threaded nipples.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* RCC(3)-1-P1
** RCC(36)-1-P1

Plan No. 2-0225

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R. Williams Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K. Gwen 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair's) or Replacement(s) described in this Report on AUG. 8 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0226

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, Washington (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Water Cleanup (RWCU) System
5. (a) Applicable Construction Code ASMEIII 19 71 Edition, None Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU-V-206A	*	6613-1-1	N/A	N/A	N/A	1974	Modified	Yes, Class 3
RWCU-V-206B	*	6613-1-2	N/A	N/A	N/A	1974	Modified	Yes, Class 3

7. Description of Work Modified Reactor Water Cleanup valves RWCU-V-206A and RWCU-V-206B. The modification work was performed as follows -
1. Removed existing "Quick Open" type plug assembly and soft seat rings
2. Installed new "Equal Percentage" type plug assembly and all metal seat rings.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1145 psi Test Temp 100 °F Component Design Pressure 1420 psig Temp. 150°F
9. Remarks See attached N-2 Code Data Report for new plug assemblies
(Applicable Manufacturer's Data Reports to be attached)

Valve EPN	Plug Assembly S/N
RWCU-V-206A	V10986
RWCU-V-206B	V10985

*Valtek Inc.

Plan No. 2-0226

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R L Webb (Owner or Owner's Designee) Plant Tech. Mgr. (Title) 7/16 (Date) .19 86

R L Webb 7/16/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 6/30 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

PLANT No. 2-0226 Form N-2

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 Valtek Incorporated, Mtn. Springs Pkwy, Springville, UT 84663
(Name and address of Manufacturer of part)

(b) Manufactured for Washington Public Power Supply, Nuc Plant 2, Warehouse #1, Richland, WA 99352
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part see below Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. 8482 Drawing Prepared by Valtek Incorporated

(b) Description of Part Inspected 3" Valve Disk Cl 600.

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date NONE, Case No. N/A Class 3

3. Remarks: Serial Numbers V10985, V10986
(Brief description of service for which component was designed)

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

Date 4 November 1985 Signed Valtek Incorporated By A. Marcus
(Manufacturer)

Certificate of Authorization Expires 14 October 1986 Certificate of Authorization No. N-1885

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Valtek Incorporated, P.O. Box 2200 Springville, UT 84663

Stress analysis report on file at Valtek Incorporated

Design specifications certified by George Ivo Skoda Prof. Eng. State CA Reg. No. 15647

Stress analysis report certified by John M. Simonsen Prof. Eng. State UT Reg. No. 2187

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 Utah and employed by H.S.B.I. & I., Co. of Hartford, CN have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on 11/5 1985, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date 11/5 1985

Inspector's Signature Commissions Ut. 91
National Board, State, Province and No.

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

Plan No. 2-0227

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Washington (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Instrument Tubing
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work Replaced 3 valve manifold for instrument CMS-LT-2. The replacement field work was performed as follows:

1. Cut and removed inlet tubing to the existing valves.
2. Installed new valve.
3. Made required socket welds on inlet side of the valve.
4. Reinstalled threaded connectors on the outlet side of the valve.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached NPV-1 Code Data Report for new valve installed, S/N GK3023.
(Applicable Manufacturer's Data Reports to be attached)

* D220-3500-25.0-CMS-LT-2
JCI - Johnson Control, Inc.

Plan No. 2-0227

CERTIFICATE OF COMPLIANCE

e certify that the statements made in this report are correct and this replacement conforms to Section XI of the ME Code.

RRang

Signed R. Wicks Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

K Smith 6/25/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on Aug. 23 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. L. Vance (Inspector) Commissions 74474 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0227.

FORM NPV 1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

1 Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650 (Name and Address of N Certificate Holder)*

2 Manufactured for Johnson Controls, Inc., Richland, WA 99352 (Name and Address of Purchaser or Owner)

3 Location of Installation Hanford Plant, Unit No. 2, Richland, WA 99352 (Name and Address)

4 Pump or Valve Valve — Nominal Inlet Size 1/2 (mm) — Outlet Size 1/2 (mm)

	(a) Model No Series No or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No	(d) Drawing No	(e) Class	(f) Nat'l Bd No	(g) Year Built
(1)	60R2585WJD-10	GK3006	None	12952	2	None	1983
(2)		thru					
(3)		GK3025					
(4)							
(5)		GK-3023					
(6)							
(7)							
(8)							
(9)							
(10)							

5 3-Valve Instrument Manifolds (20 Pcs.) (Brief description of service for which component was designed)

6 Design Conditions 3600 (Pressure) psi 100 (Temperature) F or Valve Pressure Class (1)

7 Cold Working Pressure 3600 psi at 100 F

8 Pressure Retaining Pieces

Mark No	Material Spec No	Manufacturer	Remarks
(a) Castings None			
(b) Forgings None			

(1) For manually operated valves only

* Supplementary 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 4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form

This form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Mark No	Material Spec. No	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Body	ASME SA479 TY 316	Carpenter Steel	HT 853499
Disc	ASME SA564 Gr. 630	Armco Steel	HT 616080
Bonnet	ASME SA479 TY 316	Universal-Cyclops	HT 1G3056
Plug, 1/8"	ASME SA479 TY 316	Carpenter Steel	HT 851669
Plug, 1/4"	ASME SA479 TY 316	Carpenter Steel	HT 847025

9. Hydrostatic test 5400 psi. Disk Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974 Addenda 12-31-74 (Date), Code Case No. None Date July 20, 1983

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (mm) symbol expires 3-1-83 (Date)

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report (Class 1 only) on file at not applicable

Design specifications certified by (1) Stanley Fox

PE State WA Reg No. 16168

Stress analysis certified by (1) not required

PE State Reg No.

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on July 21 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed the pump, or valve, in accordance with the ASME Code, Section III.

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

Date July 21 19 83 Signed [signature] (Inspector) Commissions AA 555 (Insp'r Bd., State, Prov. and No.)

Plan No. 2-0228

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Washington (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Containment Atmosphere Control (CAC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, S73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CAC-HR-1A	AP&C	76-129-3	5209	N/A	N/A	1976	Modification	Yes, Class 2
CAC-HR-1B	AP&C	76-130-3	5210	N/A	N/A	1976	Modification	Yes, Class 2

7. Description of Work Modified piping in hydrogen recombiners CAC-HR-1A and CAC-HR-1B to accomodate new rupture disc assembly CAC-RD-1A and CAC-RD-1B. The modification work was performed as follows:

1. Cut piping at locations to accomodate new rupture disc assembly.
2. Installed new flanges.
3. Made required socket welds.
4. Performed PT examination on the final socket welds. PT examination results acceptable.
5. Installed new rupture disc assembly and torqued the rupture disc flange bolting to the required torque values.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
Test Pressure 56.25 psi g Test Temp Amb. °F Component Design Pressure 45 psig Temp. 1200°F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

AP&C - Air Products and Chemicals, Inc.

Plan No. 2-0228

CERTIFICATE OF COMPLIANCE

- certify that the statements made in this report are correct and this modification conforms to Section (I of the ME Code.

'gned RRGWS R C Wichman Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

K. Lewis 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on May 2 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

ote: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., 2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0229

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-20069
P.O. Box 600, Richland, WA. (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Reactor Water Cleanup (RWCU) System

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU(1)-3	WPPSS	*	N/A	N/A	N/A		Modification	Yes, Class 3
RWCU(3)-4	WPPSS	**	N/A	N/A	N/A		Modification	Yes, Class 3

7. Description of Work Modified Reactor Water Cleanup (RWCU) system lines RWCU(3)-4 and RWCU(1)-3.
The modification field work was performed as follows:

1. Fabricated thermal sleeve.
2. Installed piping fittings, valves and thermal sleeve.
3. Made required socket welds and circumferential butt welds.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ]
Test Pressure 1563 psig Test Temp 70 °F Component Design Pressure 1420 psig 1544 psig Temp. 575°F 150°F

9. Remarks See attached NPV-1 Code Data Reports for the following
(Applicable Manufacturer's Data Reports to be attached)
valves installed:

EPN No.	Serial Number
RWCU-V-765	17060
RWCU-V-769	17083

* RWCU(1)-3A-P2
** RWCU(1)-4-P1

Plan No. 2-0229

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

K. Krugh 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on SEPT. 16 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [signature] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0229

17083

K Simpson 7/5/85

S/N 17083 RWCU-V-7

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. Order No. 47713
(Name & Address of Manufacturer)

2. Manufactured for Bovee & Crail/G.E.R.I. P.O. Box 1040, Richland, Washington 99352 Order No. 215-32619
(Name and Address)

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/N 76700-1, 3/4 Inch Gate Valve, CS

Serial Numbers 17078 Thru 17090, 17092 (14 Valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 76700 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No. _____

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F

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

Edition 1971, Addenda Date Winter '73, Case No. _____

Mark No	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate - Code 1P38-	SA487 CA6NM		
Casting 75347		Rex Precision	
Machined- 75346		NV Division	
(b) Forgings			
Body - Code 1J60; 1K69-	SA105		
Forging - 70453		Pacific Forge	
Machined - 70474		NV Division	
Assembly - 75349		NV Division	
Bonnet - Code 1M28	SA105		
Forged Stock		Compton Forge	
Machined - 73973-11		NV Division	
Assembly - 73973		NV Division	

REVIEWED
MAR 18 1982
BECHTEL QUALITY CONTROL
BY: _____

WBG DR 215 1

Sketches or drawings may be used provided (1) size is 8½" x 11", (2) information is limited to this form, (3) each sheet is numbered and number of sheets is recorded at top of this form.

2 1 2 3 1 1 5 0 1

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			

8. Hydrostatic test 5400-5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca.

Stress analysis report on file at N/A

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

Stress analysis report certified by N/A (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Date February 18 19 77 Signed Nuclear Valve Div. of Borg Warner (Manufacturer) By Carol M. Parker

Certificate of Authorization No. 1254 expires October 27, 1978

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of California and employed by Dept. of Bldg. & Safety City of Los Angeles have inspected the equipment described in this Data Report on February 18 19 77, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date February 18 19 77

[signature] (Inspector) Commissions Calif 1010 (National Board, State, Province and No.)

Plan No. 2-0229 VSwigh 7/9/85 * Modified NPV-1 see 6a and 8b Remarks UB209

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

S/N 17060 RWCU-V-765

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
   (Name and Address of N Certificate Holder)
2. Manufactured for Bovee & Crail/G.E.R.I., P.O. Box 1040, Richland, Washington 99352
   (Name and Address of Purchaser or Owner)
3. Location of Installation Richland, Washington WPPSS Hanford #2 Job Site
   (Name and Address)
4. Pump or Valve Gate Valve. Nominal Inlet Size 3/4 (inch) Outlet Size 3/4 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)		16961 thru 16964		76700-1	2		1977
(2)		17055 thru 17070					
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. The valves are designed to handle a fluid media which includes steam, water condensate, borated water, etc., associated with a BWR and NWR. The temperature pressure rating of the media is stated below.
   (Brief description of service for which equipment was designed)
6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class N/a (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate-Code 1P14-1P38	A296. GR CA		*Mark No. 1P38 added
Casting-75347	6NM	Rex Precision	*Mat'l Spec. was SA487
Machined-75346		NV Division	
(b) Forgings			
Body-Code 1J60:1K69	SA105		
Forging-70453		Pacific Forge	
Machined-70474		NV Division	
Assembly-75349		NV Division	
Bonnet-Code 1M28:1M53	SA105		*Material 1M53 added
Forged Stock		Compton Forge	
Machined-73973-1		NV Division	

RECEIVED FEB 25 1982 BECHTEL (PORTLAND) CONTROL BY

(1) For manually operated valves only.

215 14926

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

(10/77) This form (B00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

2 1 2 7 1 6 6 3

FORM NPV-1 (Back)

Mark No.	Maker's Serial No.	Manufacturer	Remarks
(c) Bearing			
(d) Other Parts			

6. Hydrostatic test 5400 psi. Disc Differential test pressure 3800 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1971, Addenda Winter 1973 (Date), Code Case No. _____ Date December 18, 1981

Signed Nuclear Valve Div., Borg Warner (N Certificate Holder)

Our ASME Certificate of Authorization No. N-1256 to use the N (stamp) symbol expires 10/27/84 (Date)

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409

Stress analysis report (Class 1 only) on file at _____

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) _____

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

215 14928

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on December 18 19 81, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date December 18 19 81

Commissions 1425 CA - SECURITY QUALITY CONTROL

By

RECEIVED FEB 25 1982

Plan No. 2-0229-1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Reactor Water Cleanup (RWCU) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73. Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU(1)-4	WPPSS	*	N/A	N/A	N/A	1983	Installation	Yes, Class 3

7. Description of Work Installed strain gages on Reactor Water Cleanup (RWCU) system line RWCU(3)-4. The installation work was performed as follows:

1. Prepped the areas for installation.
2. Installed five (5) strain gages by Low Energy Capacitor Discharge welding (LECDW) process.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* RWCU(1)-4-P1

Plan No. 2-0229-1

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this installation conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K. Sauer 6/14/86

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 Washington, employed by Lumbermens' Mutual Casualty Co. of Illinois have inspected the installation (Repair(s) or Replacement(s)) described in this Report on Aug. 8 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [signature] (Inspector) Commissions 74474 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0230

RHR-PS-16A,B,C
RHR-PS-19A,B,C

Rerouted instrument tubing from RHR-V-704A,B,C to RHR-PS-16A,B,C and RHR-PS-19A,B,C. Made required welds. Performed PT examination on welds. PT results were acceptable.

Plan No.. 2-0231R

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, S71 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-P-2A	I-R	473113	51	N/A	N/A	1977	Replacement	Yes, Class 2

7. Description of Work Replaced section of the pipe from the flange joint to RHR-P-2A pump oland seal plate. The replacement work was performed as follows:
1) Removed existing pipe and flange.
2) Installed new pipe and flange material.
3) Made required socket welds.
4) Performed PT examination on the final socket welds. PT examination results acceptable.
5) Installed flange bolting material and torqued the bolting material to the required torque values.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

I-R Ingersoll Rand Co.

Plan No. 2-0231R

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

[signature] 6/14/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 7/2 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [signature] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0232

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Hydraulic (HY) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HY(1)-6S	WPPSS	*	N/A	N/A	N/A	1983	Repaired	Yes, Class 2

7. Description of Work Repaired field weld FW28 in hydraulic system line HY(1)-6S. The repair field work was performed as follows:

1. Cut and removed existing failed weld.
2. Prepped the areas for rewelding. Performed PT examination on the prepped areas. PT examination results acceptable.
3. Made socket weld FW28-1.
4. Performed PT examination on the final socket weld. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1880 psig Test Temp 83 °F Component Design Pressure 2200 psig Temp. 185°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* HY(1)-6S-B

Plan No. 2-0232

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K. Curtis 6/14/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on April 4 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0233

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, Washington (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASMEIII 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FPC(1)-1	WPPSS	*	N/A	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work Replaced bolting material for flanged joints in Fuel Pool Cooling (FPC) System. The replacement work was performed as follows -
1. Removed existing bolting material
2. Installed new bolting material and torqued them to the required torque values.
3. Pressure test to reconfirm pressure boundary integrity on the flanged joints was not performed because the pressure boundary integrity was preserved by means of removing, replacing and torquing one stud at a time.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*FPC(1)-1-P1

Plan No. 2-0233

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Tech. Mgr 7/16 .19 86
(Owner or Owner's Designee) Title (Date)

[illegible] 7/15/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/30 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 [illegible] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan. No. 2-0235

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Instrument Line PI(1)-4S-X82b
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified instrument line PI(1)-4S-X82b. The modification field work was performed as follows:

1) Cut existing instrument tubing.
2) Preped valve and fitting cut socket ends for rewelding.
3) Installed required material and valves.
4) Made required socket welds.
5) Performed PT examination on final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks See attached NPV-1 Code Data Reports for new valves installed.
(Applicable Manufacturer's Data Reports to be attached)

FPN Nos.	Serial Nos.
PI-V-X82b-1	PB1046
PI-V-X82b-2	PB1048

* PI(1)-4S-X82b
JCI - Johnson Control, Inc.

Plan No. 2-0235

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

[signature] 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on Aug. 12 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [signature] (Inspector) Commissions 744TW (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

1568 0128 Plan No. 235

K Swift 10/3/85

*CORRECTED DATA REPORT NCB 5-17-83 GAS/17/83

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

FORM NPV-1 (back)

1 Manufactured by Dragon Valves, Inc., 13537 Excelsior Dr., Norwalk, CA 90650 (Name and Address of N Certificate Holder)

2 Manufactured for WPPSS, 3000 George Washington Way, Richland, WA 99352-0968 (Name and Address of Purchaser or Owner)

3 Location of Installation WPN-2 Plant, Richland, WA 99352 (Name and Address)

4 Pump or Valve Valve Nominal Inlet Size 3/4 (inch) Outlet Size 3/4 (inch)

	(a) Model No., Series No or Type	(b) N Certificate Holder's Serial No	(c) Canadian Registration No	(d) Drawing No	(e) Class	(f) NAI Bd No	(g) Year Built
(1)	502EN0511SW02	PB1038	None	13753	2	None	1983
(2)		thru					
(3)		PB1056					
(4)							
(5)		S/N PB 1038, 1041, 1042, 1045 & (1046)					
(6)							
(7)							
(8)							
(9)							
(10)							

K. Swift 4/12/85

5 Instrument Shut-off and Drain Valves (9 Pcs.) (Brief description of service for which equipment was designed)

6 Design Conditions ____ psi (Pressure) ____ °F (Temperature) or Valve Pressure Class 2500 (1)

7 Cold Working Pressure 6000 psi at 100°F.

8 Pressure Retaining Parts

Mark No	Material Spec. No	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Jessop Steel Co.	HT 30608

(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 3 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.

Mark No	Material Spec. No	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Disc	Stellite Alloy 6B	Cabot Corp.	HT 1810-3-1071
Bonnet	ASME SA479 TY 316	Al Tech Spec. Stls.	HT 08339
Union Nut	ASME SA479 TY 316	Joslyn Stainless	HT 31226

FOR INFORMATION ONLY

9. Hydrostatic test 9000 psi. Disc Differential test pressure 6000 psi.

*Addenda 6/30/76 CERTIFICATE OF COMPLIANCE DVI [illegible] 5-16-83 AHI GAS 5/17/83

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974.

Address [illegible] (Date), Code Case No. None Date May 17, 1983

Signed DRAGON VALVES, INC. (N Certificate Holder) by [illegible]

Our ASME Certificate of Authorization No. N-1033 to use the N symbol expires 5-6-84 (Date)

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System

Stress analysis report (Class 1 only) on file at not applicable

Design specifications certified by (1) Sheffik H. Rifaey

PE State VA Reg. No. 17626

Stress analysis certified by (1) not required

PE State ____ Reg. No. ____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on May 12, 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 5/12 19 83. Signature [illegible] Commissions CA 158 (Nat'l Bd., State, Prov. and No.)

BEOJITEL 320

Plan NO. 2-0235

K Smith 10/3/85

*CORRECTED DATA AS OF: Initials 5-17-83 SPB 3/11/86

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES

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

FORM NPV-1 (Back)

1 Manufactured by Dragon Valves, Inc., 11452 Excelsior Dr., Norwalk, CA 90650
(Name and Address of N Certificate Holder)

2 Manufactured for WPPSS, 3000 George Washington Way, Richland, WA 99352-0968
(Name and Address of Purchaser or Owner)

3 Location of Installation WPPSS Plant, Richland, WA 99352
(Name and Address)

4 Pump or Valve Valve Nominal Inlet Size 3/4 (inch) Outlet Size 3/4 (inch)

	(a) Model No., Serial No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	5031NOS11SV02	PB1042	None	13753	2	None	1983
(2)		thru					
(3)		PB1049					
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

S/N PB 1047, 1048 & 1049.
K Smith 4/12/85

5 Instrument Shut-off and Drain Valves (2 Pcs.)
(Brief Description of Service for which Equipment was Designed)

6 Design Conditions ____ Pressure ____ psi ____ Temperature

7 Cold Working Pressure 6000 psi at 100°F.

8 Pressure Retaining Pieces

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None				
(b) Forgings				
	Body	ASME SA182 Gr. F316	Jessop Steel Co.	NT 30608
(c) Other Parts				
	Bles	Stellite Alloy 6B	Cabot Corp.	NT 3010-4-1018
	Bonnet	ASME SA479 TT 316	Al Tech Spec. Strip.	NT 08318
	Union Nut	ASME SA479 TT 316	Jessop Stainless	NT 33726

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(d) Bolting None				
(e) Other Parts				
	Bles	Stellite Alloy 6B	Cabot Corp.	NT 3010-4-1018
	Bonnet	ASME SA479 TT 316	Al Tech Spec. Strip.	NT 08318
	Union Nut	ASME SA479 TT 316	Jessop Stainless	NT 33726

FOR INFORMATION ONLY

9 Hydrostatic test 9000 psi. Gas Differential test pressure 6000 psi.

Addenda 8/30/76 CERTIFICATE OF COMPLIANCE DVI [illegible] 5-6-83 AHI [illegible] 5/11/83

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda 12/31/75, Code Case No. None Date May 12, 1983

Signed DRAGON VALVES, INC. by [illegible]
(N Certificate Holder)

Our ASME Certificate of Authorization No. N-1013 is to use the N symbol expires 3-8-84 (Date)

CERTIFICATION OF DESIGN

Design Information on file at Washington Public Power Supply System

Stress Analysis report (Class 1 only) on file at Not Applicable

Design Specifications certified by (1) Shelik R. Bilsey
PE State VA Reg. No. 17828

Stress Analysis certified by (1) NOT REQUIRED
PE State ____ Reg. No. ____

(1) Signature not required. Use name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by POSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on May 12 19 83 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 5-12-1983 Signed [illegible] Commissions CA 1458
(Inspector) (National Board, State, Province, and No.)

DECUTEL 920

(1) For manually operated valves only

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

Plan No. 2-0236

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/25/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Instrument line PI(1)-4S-X84a
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified instrument line PI(1)-4S-X84a. The modification field work was performed as follows:
1) Cut existing instrument tubing.
2) Preped valve and fitting cut socket ends for rewelding.
3) Installed required material and valves.
4) Made required socket welds.
5) Performed PT examination on final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks See attached NPV-1 Code Data Reports for new valves installed.
(Applicable Manufacturer's Data Reports to be attached)

EPN NO.	Serial No.
PI-V-X84a-1	GT1427
PI-V-X84a-2	GT1424

* PI(1)-4S-X84a
JCI - Johnson Control, Inc.

Plan No. 2-0236

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K. Swift 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair's) or Replacement(s) described in this Report on AUG. 28 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [illegible] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

Plan No. 2-0236

1. Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650 (Name and Address of N Certificate Holder)

10/3/85

2. Manufactured for WSH/Boecon/GERI, P. O. Box 1040, Richland, WA 99352 (Name and Address of Purchaser or Owner)

3. Location of Installation WPPSS, Hanford Jobsite #2, Richland, WA 99352 (Name and Address)

4. Pump or Valve Valve. Nominal Inlet Size 3/4 SW (inch) Outlet Size 3/4 SW (inch)

9C 54487

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	[redacted]	GT1418	N/A	13753	2	N/A	1981
(2)		thru					
(3)		GT1427					
(4)							
(5)				S/N GT 1420, 1421, 1424 & 1427			
(6)							
(7)							
(8)							
(9)							
(10)							

5. Instrument Shut-off Valves (10 Pcs.)
(Brief description of service for which equipment was designed)

6. Design Conditions _____ psi _____ °F or Valve Pressure Class 2500 (1)
(Pressure) (Temperature)

7. Cold Working Pressure 6000 psi at 100°F

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Jessop Steel Co.	HT 30990

REVIEWED
MAR 19 1982
BECHTEL QUALITY CONTROL
BY:

WBGBR 215 16356

FOR INFORMATION ONLY

(1) For manually operated valves only.

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

2

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Disc	Stellite Alloy 6B	Cabot Corp. Stellite	HT 1810-3-1071-
Bonnet	ASME SA479 TY 316	Joslyn Stainless	HT 76285 -
Union Nut	ASME SA479 TY 316	Joslyn Stainless	HT 71226

9. Hydrostatic test 9000 psi. Disk Differential test pressure 6000 psi.

FOR INFORMATION ONLY

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 6-30-76 (Date), Code Case No. N/A, Date January 20, 1981

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (N) symbol expires 5-6-81 (Date)

CERTIFICATION OF DESIGN

REVIEWED MAR 19 1982 BECHTEL QUALITY CONTROL BY:

Design information on file at WSH/Boecon/GERI

Stress analysis report (Class I only) on file at not applicable

Design specifications certified by (1) David J. Murphy

PE State WA Reg. No. 12542

Stress analysis certified by (1) not required

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

WBGBR 215 16356

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on Jan 22, 19 81, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date Jan 22 19 81.

[signature] (Inspector) Commissions Ca 658 (Nat'l Bd., State, Prov. and No.)

3

Plan No. 2-0237

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/25/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Instrument Line PI(1)-4S-X86A and 86B
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	modification	Yes, Class 2 & 3
**	JCI	**	N/A	N/A	N/A	1983	modification	Yes, Class 2 & 3

7. Description of Work Modified instrument lines PI(1)-4S-86A and 86B. The modification field work was performed as follows:
1) Cut existing instrument tubing.
2) Preped valve and fitting cut socket ends for rewelding.
3) Installed required material and valves.
4) Made required socket welds.
5) Performed PT examination on final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks See attached NPV-1 Code Data Reports for new valves installed.
(Applicable Manufacturer's Data Reports to be attached)

EPN Nos.	Serial Nos.
PI-V-X86A-1	PB1047
PI-V-X86A-2	PB1049
PI-V-X86B-1	PB1045
PI-V-X86B-2	PB1041

* PI(1)-4S-X86A
** PI(1)-4S-X86B

Plan No. 2-0237

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed Plant R C Wilson, Plant Technical Manager 6/25, 19 86
(Owner or Owner's Designee) Title (Date)

K Smith 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 8/28, 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/25/86 D. L. Vance (Inspector) Commissions 74474 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

1500

Plan No. 2-0237.

*CORRECTED DATA REPORT Rep. 5-17-83. 5/11/83

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

FORM NPV-1 (Back)

1 Manufactured by Dragon Valves, Inc., 13451 Excelsior Dr., Norwalk, CA 90650 (Name and Address of N Certificate Holder)

2 Manufactured for WPPSS, 3000 George Washington Way, Richland, WA 99352-0968 (Name and Address of Purchaser or Owner)

3 Location of Installation WPN-2 Plant, Richland, WA 99352 (Name and Address)

4 Pump or Valve Valve Nominal Inlet Size 3/4 (inch) Outlet Size 3/4 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No	(g) Year Built
(1)	502FN05115VD2	PB1047	None	13753	2	None	1983
(2)		thru					
(3)		PB1049					
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

S/N PB1047 1048 & 1049

K Swift 4/12/85

5. Instrument Shut-off and Drain Valves (3 Pcs.) (Brief description of service for which equipment was designed)

6 Design Conditions _____ psi (Pressure) _____ °F (Temperature) or Valve Pressure Class 2500 (1)

7. Cold Working Pressure 6000 psi at 100°F.

8 Pressure Retaining Pieces

Mark No	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Jessop Steel Co.	HT 30608

(1) For manually operated valves only

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Disc	Stellite Alloy 6B	Cabot Corp.	HT 1810-4-1078
Bonnet	ASME SA479 TY 316	A1 Tech Spec. Stls.	HT 08329
Union Nut	ASME SA479 TY 316	Joslyn Stainless	HT 71226

FOR INFORMATION ONLY

9. Hydrostatic test 9000 psi. Disk Differential test pressure 6000 psi.

*Addenda 6/30/76 CERTIFICATE OF COMPLIANCE DVI 5-10-85 ANI 5/12/83

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1976, Addenda 12-31-76 (Date), Code Case No. None Date May 12, 1983

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (Stamp) symbol expires 5-6-86 (Date)

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System

Stress analysis report (Class 1 only) on file at not applicable

Design specifications certified by (1) Shafik H. Rifaey

PE State VA Reg. No. 17626

Stress analysis certified by (1) not required

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on May 12, 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 5-12- 19 83 Commissions C1858 (Nat'l Bd., State, Prov. and No.)

BEDITEL 320

2 1 5 6 8 0 1 2 8 Plan No. 2-0237

K Swift 10/3/85

*CORRECTED DATA REPORT NCB - 5-17-83 OAS/10/85 ANI

FORM NPV-1 (back)

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

1 Manufactured by Beacon Valves, Inc., 13552 Excelsior Dr., Norwalk, CA 90650 (Name and Address of N Certificate Holder)

2 Manufactured for WPPSS, 3000 George Washington Way, Richland, WA 99352-0968 (Name and Address of Purchaser or Owner)

3 Location of Installation WPN-2 Plant, Richland, WA 99352 (Name and Address)

4 Pump or Valve Valve Nominal Inlet Size 3/4 (inch) Outlet Size 3/4 (inch)

	(a) Model No., Series No or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No	(d) Drawing No	(e) Class	(f) Nat'l Bd No	(g) Year Built
(1)	5D2FN0511SV07	PB1038	None	13751	2	None	1983
(2)		thru					
(3)		PB1046					
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

S/N PB 1038, 1041, 1042, 1045 & 1046

K Swift 4/12/85

5 Instrument Shut-off and Drain Valves (9 Pcs.) (Brief description of service for which equipment was designed)

6 Design Conditions ____ psi (Pressure) ____ °F (Temperature) or Valve Pressure Class 2500 (1)

7 Cold Working Pressure 6000 psi at 100°F

8 Pressure Retaining Pieces

Mark No	Material Spec. No	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Jessop Steel Co.	HT 30508

(1) For manually operated valves only.

Mark No	Material Spec. No	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Disc	Stellite Alloy 6B	Cabot Corp.	HT 1810-3-1071
Bonnet	ASME SA479 TY 316	Al Tech Spec. Stls.	HT 08379
Union Nut	ASME SA479 TY 316	Joslyn Stainless	HT 31226

FOR-INFORMATION-ONLY

8. Hydrostatic test 9000 psi. Disc Differential test pressure 6000 psi.

Addenda 6/30/76 **CERTIFICATE OF COMPLIANCE** DVI 1985 5-16-85 ANI 9/25 5/17/83

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda ----- (Date), Code Case No. None Date May 17, 1983

Signed BEACON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (stamp) symbol expires 3-6-84 (Date)

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System

Stress analysis report (Class 1 only) on file at not applicable

Design specifications certified by (1) Shafik H. Rifaey

PE State WA Reg. No. 17616

Stress analysis certified by (1) not required

PE State ____ Reg. No. ____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on May 18, 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 5/18 19 83 Signed [signature] (Inspector) Commissions CA 158 (National Bd., State, Prov. and No.)

BEQUTEL 320

* 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 3 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.

Plan No. 2-0237-1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Instrument Line PI(1)-4S-X86B
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced excess flow check valve PI-EFC-X86B. The replacement field work was performed as follows:
1) Cut existing instrument valve out.
2) Preped valve and fitting cut socket ends for rewelding.
3) Installed required material and valve.
4) Made required socket welds.
5) Performed PT examination on final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached NPV-1 Code Data Report for new valve installed.
(Applicable Manufacturer's Data Reports to be attached)

EPN No.	Serial No.
PI-EFC-X86B	GW1090

Plan No. 2-0237-1

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R. Williams Plant Technical Manager 6/25 19 86
(Owner or Owner's Designee) Title (Date)

V. Smith 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on SEPT. 10 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D. L. Jones (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

S/N GW1090
Plan No. 2-0237-1 KSmith 7/9/85

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by DRAGON VALVES, INC. • 13457 Excelsior Drive • Norwalk, CA. 90650 Order No. N19787S
(Name & Address of Manufacturer)

2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 Order No. X56021
(Name and Address)

3. Owner Washington Public Power Supply System, WPPSS Nuclear Project No. 2

4. Location of Plant Richland, Washington

5. Pump or Valve Identification Serial Numbers GW1076 thru GW1100 (25 Pcs.)

1 Inch Pipe Sockwetweld Inlet x 1/2 Inch Tube Socketweld Outlet, Excess Flow Check
(Brief description of service for which equipment was designed)
Valve. Part Number 12583.

(a) Drawing No. 12583 Prepared by Dragon Valves, Inc.

(b) National Board No. ——

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

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1

Edition 1974, Addenda Date 12-30-76, Case No. _____

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body HT D21722	SA182 Gr. F316	Uddeholm Steel Corp.	
Bonnet HT LK5070	SA182 Gr. F316	Uddeholm Steel Corp.	

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items, 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
Bolt	HT A16899	SA564 Gr. 630	Colt Inc., Crucible Inc. Spec. Metal Di	
(d) Other Parts				
Disc	HT 02984	SA564 Gr. 630	Al Tech Spec. Steel Corp.	
Disc	HT 825518	SA564 Gr. 630	Carpenter Technology Corp.	

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at Johnson Controls, Inc.

Design specifications certified by James E. Hagan, Jr. (1) Prof. Eng. State WA Reg. No. 13579

Stress analysis report certified by James C. Tsacoyennes (1) Prof. Eng. State MA Reg. No. 19797

(1) Signature not required. List name only.

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

Date December 7, 1978 Signed DRAGON VALVES, INC. (Manufacturer) By [signature]

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 12-7-1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 12-7-1978

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

Printed in U.S.A.

Plan No. 2-0238

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)

4. Identification of System Instrument Lines PI(1)-4S-X87A and X87B

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2 & 3
**	JCI	**	N/A	N/A	N/A	1983	Modification	Yes, Class 2 & 3

7. Description of Work Modified instrument lines PI(1)-4S-X87A and X87B. The modification field work was performed as follows:

1) Cut existing instrument tubing.
2) Preped socket ends for rewelding.
3) Installed required material and valves.
4) Made required socket welds.
5) Performed PT examination on final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks See attached NPV-1 code data reports for new valves installed.
(Applicable Manufacturer's Data Reports to be attached)

EPN No.	Serial No.
PI-V-X87A-1	GT 1421
PI-V-X87A-2	GT 1420
PI-V-X87B-1	PB 1038
PI-V-X87B-2	PB 1042

* PI(1)-4S-X87A
** PI(1)-4S-X87B

JCI - Johnson Control Inc.

Plan No. 2-0238

CERTIFICATE OF COMPLIANCE

:ertify that the statements made in this report are correct and this modification conforms to Section (: of the
'E Code.

:ned [signature] Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

6/19/86

CERTIFICATE OF INSPECTION

:, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on DEC. 9 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [signature] (Inspector) Commissions 7447W (State or Province, National Board)

te: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., .) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered nd the number of sheets is recorded at the top of this form.

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Div. 1 Plan No. 2-0238

1. Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650
(Name and Address of N Certificate Holder)
2. Manufactured for WSH/Boeeon/GERL, P. O. Box 1040, Richland, WA 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation WPPSS, Hanford Jobsite #2, Richland, WA 99352
(Name and Address)
4. Pump or Valve Valve, Nominal Inlet Size 3/4 SW (inch) Outlet Size 3/4 SW (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	502FN0511SWD2	GT1418	N/A	13753	2	N/A	1981
(2)		thru					
(3)		GT1427					
(4)							
(5)			S/N GT (1420)(1421) 1424 E 1427				
(6)							
(7)							
(8)							
(9)							
(10)							

5. Instrument Shut-off Valves (10 Pcs.)
(Brief description of service for which equipment was designed)

6. Design Conditions _____ (Pressure) psi _____ (Temperature) °F or Valve Pressure Class 2500 (1)
7. Cold Working Pressure 6000 psi at 100°F
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Jessop Steel Co.	HT 30990

REVIEWED
MAR 19 1982
BECHTEL QUALITY CONTROL
BY:

WBGBR 215 16356

(1) For manually operated valves only.

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

2

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None			
			Plan No. 20238
(d) Other Parts			
Disc	Stellite Alloy 6B	Cabot Corp. Stellite	HT 1810-3-1071-
Bonnet	ASME SA479 TY 316	Joslyn Stainless	HT 76285 -
Union Nut	ASME SA479 TY 316	Joslyn Stainless	HT 71226

9. Hydrostatic test 9000 psi. Disk Differential test pressure 6000 psi.

FOR INFORMATION ONLY

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 6-30-76 (Date), Code Case No. N/A, Date January 20, 1981

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (N) symbol expires 5-6-81 (Date).

CERTIFICATION OF DESIGN

REVIEWED MAR 19 1982 BECHTEL QUALITY CONTROL BY:

Design information on file at WSH/Boecon/GERI

Stress analysis report (Class I only) on file at not applicable

Design specifications certified by (1) David J. Murphy

PE State VA Reg. No. 12542

Stress analysis certified by (1) not required

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

WBGR 215 16356

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on Jan 22 19 81, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date Jan 22 19 81.

[signature] (Inspector) Commissions Ca 658 (Nat'l Bd., State, Prov. and No.)

3

1508 0128 Plan No. 2-0238

*CORRECTED DATA REPORT NCB 5-17-83 "Pumps only"

FORM NPV-1 N CERTIFICATE HOLDER'S* DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

1 Manufactured by Dragon Valves, Inc., 13657 Excelsior Dr., Norwalk, CA 90650 (Name and Address of N Certificate Holder)

2 Manufactured for WPPSS, 3000 George Washington Way, Richland, WA 99352-0968 (Name and Address of Purchaser or Owner)

3 Location of Installation WPN-2 Plant, Richland, WA 99352 (Name and Address)

4 Pump or Valve Valve Nominal Inlet Size 3/4 (inch) Outlet Size 3/4 (inch)

(a) Model No., Series No or Type	(b) N Certificate Holder's Serial No	(c) Canadian Registration No	(d) Drawing No	(e) Class	(f) Nat'l Bd No	(g) Year Built
(1) SO2EN0511SS02	PB1038	None	13153	2	None	1983
(2)	thru					
(3)	PB1046					
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

S/N PB 1038, 1041, 1042, 1045 & 1046

V. Supts

4/12/85

5 Instrument Shut-off and Drain Valves (9 Pcs.) (Brief description of service for which equipment was designed)

6 Design Conditions ____ (Pressure) ____ psi ____ (Temperature) °F or Valve Pressure Class 2500 (1)

7 Cold Working Pressure 6000 psi at 100°F

8 Pressure Retaining Pieces

Mark No	Material Spec No	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Jessop Steel Co.	HT 38608

(1) For manually operated valves only

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

BEOJITEL 320

FORM NPV-1 (back)

Mark No	Material Spec No	Manufacturer	Remarks
(c) Bolting None*			
(d) Other Parts			
Disc	Stellite Alloy 6B	Cabot Corp.	HT 1810-3-1071
Bonnet	ASME SA479 TY 316	Al Tech Spec. Stls.	HT 08329
Union Nut	ASME SA479 TY 316	Jaclyn Stainless	HT 71226

FOR INSPECTION ONLY

9. Hydrostatic test 9000 psi. Disc Differential test pressure 6000 psi.

*Addenda 6/30/76 CERTIFICATE OF COMPLIANCE DVI SKB 3-16-83 ANI SJS 5/17/83

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1976, Addenda 12/31/76 (Date), Code Case No. None, Date May 17, 1983

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No N-1033 to use the N (type) symbol expires 5-6-84 (Date)

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System

Stress analysis report (Class 1 only) on file at not applicable

Design specifications certified by (1) Sheffik H. Rifaey

PE State VA Reg No 17626

Stress analysis certified by (1) not required

PE State ____ Reg No. ____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on May 12, 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump or valve, in accordance with the ASME Code, Section III.

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

Date 5/12 19 83. Signed [signature] (Inspector) Commissions CA 158 (National Board, State, Prov. and No.)

Plan No. 2-0239

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Instrument Line PI(1)-ST-(1R-64)-9
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified instrument line PI(1)-ST-(1R-64)-9. The modification field work was performed as follows:

1) Cut existing instrument tubing.
2) Preped socket ends for rewelding.
3) Installed required material and valves.
4) Made required socket welds.
5) Performed PT examination on final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks See attached NPV-1 code data reports for new valves installed.
(Applicable Manufacturer's Data Reports to be attached)

EPN No.	Serial No.
PI-V-X66-1	PB 1078
PI-V-X66-2	PB 1076

* PI(1)-ST-(1R-64)-9
JCI - Johnson Control Inc.

Plan No. 2-0239

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

K. [illegible] 6/19/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on JAN. 8 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [illegible] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0239.

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

1. Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA. 90650
(Name and Address of N Certificate Holder)

2. Manufactured for Washington Public Power Supply System, P.O. Box 968, Richland, WA. 99352-0968
(Name and Address of Purchaser or Owner)

3. Location of Installation WNP-2 Site, Richland, WA. 99352
(Name and Address)

4. Pump or Valve Valve. Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	7N058SWD	PB1076	N/A	10580	2	N/A	1985
(2)		thru		Rev. B			
(3)		PB1084					
(4)							
(5)							
(6)		PB 1076	Plan No 2-0239				
(7)		PB 1078					
(8)							
(9)		PB 1079	~~Plan No 2-0239~~				
(10)		PB 1081					

V. Swab 7/8/85

V. Swab 7/8/85

5. Instrument Valves (9 Pcs.)
(Brief description of service for which equipment was designed)

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

7. Cold Working Pressure 3600 psi at 100°F

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings N/A			
(b) Forgings			
HT.74843	ASME SA182 GR.F316	Ajax Forge Co.	Body
HT.75463	ASME SA182 GR.F316	Ajax Forge Co.	Yoke

(1) For manually operated valves only.

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
HT.50937	ASME SA564 GR.630	Carpenter Steel	Disc

9. Hydrostatic test 5400 psi. Disc Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974, Addenda Summer'75 (Date), Code Case No. N/A (Date)

Signed DRAGON VALVES, INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1033 to use the N (Stamp) symbol expires 5-6-87 (Date).

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System (See Line 2)

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) David J. Murphy

PE State WA. Reg. No. 12542

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on 6-14 19 85, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 6-14 19 85

[signature] (Inspector) Commissions CA 1234 (Nat'l Bd., State, Prov. and No.)

Plan No. 2-0239-1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Instrument Line PI(1)-S7-(1R-64)-9
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N306
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced excess flow check valve PI-EFC-X66 in instrument line PI(1)-S7-(1R-64)-9. The replacement field work was performed as follows:

1) Cut existing tubing and removed valve.
2) Installed new valve and tubing material.
3) Made required socket welds.
4) Performed PT examination on the final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure ____ psi Test Temp ____ °F Component Design Pressure ____ Temp. ____
9. Remarks See attached NPV-1 code data report for new valve installed.
(Applicable Manufacturer's Data Reports to be attached)

EPN No.	Serial No.
PI-EFC-X66	GW 1043

* PI(1)-S7-(1R-64)-9
JCI - Johnson Control Inc.

Plan No. 2-0239-1

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed R. L. Wilkins Plant Technical Manager 6/3.5 .19 86
(Owner or Owner's Designee) (Title) (Date)

R L Gwin 6/19/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on JAN. 8 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 G. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

GW1043
Plan No. 2-0239-1 — K Gumpb 7/9/85

Plan No. 2-0239-1

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by DRAGON VALVES, INC. • 13457 Excelsior Drive • Norwalk, CA. 90650 Order No. N19787S
(Name & Address of Manufacturer)

2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 Order No. X56021
(Name and Address)

3. Owner Washington Public Power Supply System, WPPSS Nuclear Project No. 2

4. Location of Plant Richland, Washington

5. Pump or Valve Identification Serial Numbers GW1026 thru GW1050 (25 Pcs.)

1 Inch Pipe Sockwetweld Inlet x 1/2 Inch Tube Socketweld Outlet, Excess Flow Check
(Brief description of service for which equipment was designed)
Valve. Part Number 12583.

(a) Drawing No. 12583 Prepared by Dragon Valves, Inc.

(b) National Board No. ——

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

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1974, Addenda Date 12-30-76, Case No. ____

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body HT D21722	SA182 Gr. F316	Uddeholm Steel Corp.	
Bonnet HT LK5070	SA182 Gr. F316	Uddeholm Steel Corp.	

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Plan No. 2-0239-1

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
Bolt	HT A16899	SA564 Gr. 630	Colt Inc., Crucible Inc. Spec. Metal	Di
(d) Other Parts				
Disc	HT 02984	SA564 Gr. 630	Al Tech Spec. Steel Corp.	
Disc	HT 825518	SA564 Gr. 630	Carpenter Technology Corp.	

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at Johnson Controls, Inc.

Design specifications certified by James E. Hagan, Jr. (1) Prof. Eng. State WA Reg. No. 13579

Stress analysis report certified by James C. Tsacoyeanes (1) Prof. Eng. State MA Reg. No. 19797

(1) Signature not required. List name only.

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

Date December 7, 1978 Signed DRAGON VALVES, INC. (Manufacturer) By [signature]

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 12-7-1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 12-7-1978

[signature] (Inspector) Commissions Cal. 857 (National Board, State, Province and No.)

Printed in U.S.A.

Plan No. 2-0240

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/1/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Instrument Line PI(1)-ST-1R-63-10
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified instrument line PI(1)-ST-1R-63-10. The modification field work was performed as follows:

1) Cut existing instrument tubing.
2) Preped socket ends for rewelding.
3) Installed required material and valves.
4) Made required socket welds.
5) Performed PT examination on final socket welds. PT examination results acceptable.
6) Fabricated and installed new support.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☑ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached NPV-1 code data reports for new valves installed.
(Applicable Manufacturer's Data Reports to be attached)

EPN No.	Serial No.
PI-V-X-67-1	PB 1091
PI-V-X-67-2	PB 1088

* PI(1)-ST-1R-63-10
JCI - Johnson Control Inc.

Plan No. 2-0240

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/25/ .19 86
(Owner or Owner's Designee) Title (Date)

6/19/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on OCT. 25 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [illegible] (Inspector) Commissions 7447 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No 2-0240.

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

1. Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA. 90650
(Name and Address of N Certificate Holder)

2. Manufactured for Washington Public Power Supply System, P.O. Box 968, Richland, WA. 99352-0968
(Name and Address of Purchaser or Owner)

3. Location of Installation WNP-2 Site, Richland, WA. 99352
(Name and Address)

4. Pump or Valve Valve. Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	7N058SWD	PB1087	N/A	10580	2	N/A	1985
(2)		thru		Rev. B			
(3)		PB1094					
(4)							
(5)		PB 1091	Plan No. 2-0240.				
(6)		PB 1088					
(7)							
(8)							
(9)							
(10)							

7/8/85

5. Instrument Valves (8 Pcs.)
(Brief description of service for which equipment was designed)

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

7. Cold Working Pressure 3600 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings N/A			
(b) Forgings			
HT.1G4836	ASME SA182 GR.F316	Ajax Forge Co.	Body
HT.A19167	ASME SA182 GR.F316	Ajax Forge Co.	Yoke

(1) For manually operated valves only.

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
HT.50937	ASME SA564 GR.630	Carpenter Steel	Disc

9. Hydrostatic test 5400 psi. Disk Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974, Addenda Summer'75 (Date), Code Case No. N/A, Date

Signed DRAGON VALVES, INC. (N Certificate Holder) by

Our ASME Certificate of Authorization No. N-1033 to use the N (N) symbol expires 5-6-87 (Date).

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System (See Line 2)

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) David J. Murphy

PE State WA. Reg. No. 12542

Stress analysis certified by (1) N/A

PE State Reg. No.

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on 6-14 19 85, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 6-14 19 85

(Inspector) Commissions CA 1234 (Nat'l Bd., State, Prov. and No.)

Plan. No. 2-0241

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)

4. Identification of System Instrument Line PI(1)-ST-(1R-64)-7

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified instrument line PI-(1)-ST-(1R-64)-7. The modification field work was performed as follows:

1) Cut existing instrument tubing.
2) Preped socket ends for rewelding.
3) Installed required material and valves.
4) Made required socket welds.
5) Performed PT examination on final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks See attached NPV-1 code data reports for new valves installed.
(Applicable Manufacturer's Data Reports to be attached)

EPN No.	Serial No.
PI-V-X119-1	PB 1081
PI-V-X119-2	PB 1079

* PI(1)-ST-(1R-64)-7
JCI - Johnson Control Inc.

Plan No. 2-0241

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

[signature] 6/19/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on OCT. 25 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [signature] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0241

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

1. Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA. 90650
(Name and Address of N Certificate Holder)

2. Manufactured for Washington Public Power Supply System, P.O. Box 968, Richland, WA. 99352-0968
(Name and Address of Purchaser or Owner)

3. Location of Installation WNP-2 Site, Richland, WA. 99352
(Name and Address)

4. Pump or Valve Valve. Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	7N058SWD	PB1076	N/A	10580	2	N/A	1985
(2)		thru		Rev. B			
(3)		PB1084					
(4)							
(5)							
(6)		PB 1076	Plan No 2-0239				
(7)		PB 1078					
(8)							
(9)		PB 1079	~~Plan No. 2-0247~~				
(10)		PB 1081					

V. Swets 7/8/85

V. Swets 7/8/85

5. Instrument Valves (9 Pcs.)
(Brief description of service for which equipment was designed)

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

7. Cold Working Pressure 3600 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings N/A			
(b) Forgings			
HT.74843	ASME SA182 GR.F316	Ajax Forge Co.	Body
HT.75463	ASME SA182 GR.F316	Ajax Forge Co.	Yoke

(1) For manually operated valves only.

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
HT.50937	ASME SA564 GR.630	Carpenter Steel	Disc

9. Hydrostatic test 5400 psi. Disk Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974, Addenda Summer'75 (Date), Code Case No. N/A. Date

Signed DRAGON VALVES, INC. (N Certificate Holder) by

Our ASME Certificate of Authorization No. N-1033 to use the N (Stamp) symbol expires 5-6-87 (Date).

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System (See Line 2)

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) David J. Murphy

PE State WA. Reg. No. 12542

Stress analysis certified by (1) N/A

PE State Reg. No.

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by DOSH of CALIFORNIA have inspected the pump, or valve, described in this Data Report on 6-14 19 85, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 6-14 19 85

(Inspector) Commissions CA 1234 (Nat'l Bd., State, Prov. and No.)

Plan No. 2-0242

MS-PTD-1A,1B

Rerouted instrument tubing to MS-PTD-1A,1B. Made required welds.

Plan No. 2-0243

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME III 19 74 Edition, S75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CIA-V-31A	B-W	25884	N/A	N/A	N/A	1978	Repaired	Yes, Class 2

7. Description of Work Repaired containment instrument air (CIA) valve CIA-V-31A. The repair work was performed as follows:

1) Cut body to bonnet seal weld.
2) Removed valve internals and performed rework.
3) Reassembled valve internals.
4) Installed bonnet into valve body and torqued it to the required torque value.
5) Made body to bonnet seal weld.
6) Performed PT examination on the final seal weld. PT examination results acceptable.
7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 145 psig Test Temp Amb °F Component Design Pressure 3600 psig Temp. 100°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

B-W Borg Warner

Plan No. 2-0243

CERTIFICATE OF COMPLIANCE

certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/25 19 86
(Owner or Owner's Designee) Title (Date)

6/14/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on June 10, 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 [illegible] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0244

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/82
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(1)-4B	WPPSS	*	N/A	N/A	N/A	1983	Repaired	Yes, Class 1

7. Description of Work Repaired field welds in residual heat removal (RHR) line RHR(50)-4-13.
The field welds were repaired as follows:

1) Cut field welds at sock-o-let and at valve RHR-V-61.
2) Preped valve and sock-o-let ends for rewelding. Performed PT examination on preped ends. PT examination results acceptable.
3) Installed new pipe piece.
4) Made required socket welds.
5) Performed PT examination on the final socket welds. PT examination results acceptable.
6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 310 psig Test Temp 106 °F Component Design Pressure 1250/psig 1550 Temp. 575°F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* RHR(1)-4B-P1
WPPSS - Washington Public Power Supply System

Plan No. 2-0244

CERTIFICATE OF COMPLIANCE

certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Plans

Signed [illegible] Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

6/24/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on OCT. 25 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [illegible] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0245

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Feed Water (RFW) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RFW-V-32B	A/C	IN-110	N/A	N/A	N/A	1975	Repaired	Yes, Class 1

7. Description of Work Repaired reactor feed water (RFW) RFW-V-32B valve disc stellite facing. The valve disc stellite facing was repaired as follows:

1) Removed unacceptable PT indications.
2) Performed PT examination on the ground out areas. PT examination results acceptable.
3) Built up the ground out areas by welding.
4) Restored the stellite facing by grinding, machining and lapping.
5) Performed PT examination on the repaired areas. PT examination results acceptable.
6) Assembled valve and torqued body to bonnet bolting material to the required torque values. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 970 psig Test Temp Amb °F Component Design Pressure 2160 psig Temp. 700°F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

A/C - Anchor/Darling

Plan No. 2-0245

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed R C Weber Plant Technical Manager 10/25 .19 86
(Owner or Owner's Designee) Title (Date)

6/19/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on OCT. 25 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 D L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0246

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/17/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Water Clean Up System (RWCU)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W71 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU-HX-1A	GE	223395	54361	N/A	N/A	1972	Replacement	Yes, Class 3

7. Description of Work Replaced diaphragm plate on RWCU-HX-1A channel head. The replacement work was performed as follows:

1) Removed flange cover from the channel head.
2) Removed existing diaphragm plate by grinding the seal weld.
3) Preped the channel head facing.
4) Seal welded new diaphragm plate to the channel head.
5) MT examined the final seal weld. MT examination results acceptable.
6) Reinstalled flange cover and the bolting.
7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1176 psi g Test Temp Amb °F Component Design Pressure 1450 psig Temp. 575°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

GE - General Electric
WPPSS - Washington Public Power Supply System

Plan No. 2-0246

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Tech. Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

6/19/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on OCT. 25 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [illegible] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0248

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, Washington (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-20069 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Address)
4. Identification of System Reactor Water Cleanup (RWCU) System
5. (a) Applicable Construction Code ASMEIII 19 71 Edition, W71 Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU-HX-1B	GE	223396	54361	N/A	N/A	1972	Repaired	Yes, Class 3

7. Description of Work Repaired diaphragm plate to channel head seal weld for Reactor Water Cleanup heat exchanger RWCU-HX-1B. The repair work was performed as follows -
1. Removed flange cover from the channel head
2. Performed MT examination on the seal weld
3. Removed unacceptable MT indications by grinding
4. Performed MT examination on the ground out areas
5. Repaired the ground out areas by welding
6. Performed MT examination on the repaired areas. MT examination results acceptable.
7. Reinstalled flange cover and the bolting
8. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1176 psi Test Temp Amb. °F Component Design Pressure 1450 psig Temp. 575°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0248

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed R. L. Webster (Owner or Owner's Designee) Plant Tech. Mgr. (Title) 7/16 (Date), 19 86

R. Swep 7/15/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 7/11, 19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/21/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0249

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Standby Liquid Control (SLC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SLC-V-4A	CC	N/A	91	N/A	N/A	1975	Replaced	Yes, Class 1
SLC-V-4B	CC	N/A	90	N/A	N/A	1975	Replaced	Yes, Class 1

7. Description of Work Replaced parts for explosive actuated valve for standby liquid control system valves SLC-V-4A and SLC-V-4B. The replacement work was performed as follows:

1. Removed trigger assembly and inlet fitting from each valve.
2. Installed new trigger assembly and inlet fitting.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 915* / 1150** psi g Test Temp 528 °F Component Design Pressure 1400 psig Temp. 150°F

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

See attached N-2 Code Data Reports for new trigger assembly and inlet fitting.

Valve EPN	Trigger Assembly S/N	Inlet Fitting S/N
SLC-V-4A	2503	2520
SLC-V-4B	2502	2519

CC - Conax Corporation

* - Outlet side flanged joint
** - Inlet side flanged joint

Plan No. 2-0249

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed R. Weber (Owner or Owner's Designee) Plant Technical Manager (Title) 7/16 (Date) .19 86

K. Swope 7/15/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/28 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

PLAN No. 2-0249

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

As Required by the Provisions of the ASME Code, Section III, Division 1
Not To Exceed One Day's Production

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

2. Manufactured for General Electric Co. 175 Curtner Ave. San Jose, CA. 95125
(name and address of purchaser)

3. Location of installation _____
(name and address)

4. Type N-20000 (drawing no.) 304 SS SA479 (mat'l spec no.) 75 KSI (tensile strength) _____ (CRN) 1984 (year built)

5. ASME Code, Section III: 77 (edition) S77 (addenda) 1 (class) NA (Code Case no.)

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

7. Remarks: Trigger body sub-assembly for explosive valve replacement kit for standby liquid control system.

*Pressure tested at 2800 min for 10 minutes. Para. NB-2121(b) is applicable to ram

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

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 2502	2502	(26)	
(2) 2503	2503	(27)	
(3) 2504	2504	(28)	
(4) 2505	2505	(29)	
(5) 2506	2506	(30)	
(6) 2507	2507	(31)	
(7) 2508	2508	(32)	
(8) 2509	2509	(33)	
(9) 2510	2510	(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	W.J.K.
(22)		(47)	
(23)		(48)	DEC 21 1984
(24)		(49)	
(25)		(50)	

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

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

8

FORM N-2 (back)

CERTIFICATE OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

ASME Certificate of Authorization no. N-1850 Expires September 2, 1986

Date 12/19/84 Name Conax Buffalo Corporation (NPT Certificate Holder) Signed (authorized representative) Ronald E. Parchmin

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of New York and employed by Lumbermens Mutual Casualty Co of Long Grove, Il. have inspected these items described in this data report on 12/19/84, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/19/84 Signed J. A. Thomas (Authorized Inspector) Commissions OHIO COMMISSIONED NB7710 PA2534 NY2705 (Nat'l Bd. (incl. endorsements) state or prov. and no.)

QA-E.E.
W.J.K.
DEC 21 1984

PLAN NO. 2-0249

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

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

Not To Exceed One Day's Production

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

2. Manufactured for General Electric Co. 175 Curtner Ave. San Jose, CA. 95125 (name and address of purchaser)

3. Location of installation _____ (name and address)

4. Type N-38017 (drawing no.) 304 SS SA479 (Nat'l spec no.) 75 KSI (tensile strength) NA (CRN) 1984 (year built)

5. ASME Code, Section III: 77 (edition) S77 (addenda) 1 (class) NA (Code Case no.)

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

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

* Pressure tested at 2800 psi for 10 minutes

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

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
(1) 2518	2518	(26)	
(2) 2519	2519	(27)	
(3) 2520	2520	(28)	
(4) 2521	2521	(29)	
(5) 2522	2522	(30)	
(6) 2523	2523	(31)	
(7) 2524	2524	(32)	
(8) 2525	2525	(33)	
(9) 2526	2526	(34)	
(10) JAT	JAT	(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	DEC 21 1984
(24)		(49)	
(25)		(50)	

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

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

(6/83) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

7

FORM N-2 (back)

CERTIFICATE OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

ASME Certificate of Authorization no. N-1850 Expires September 2, 1986

Date 12/19/84 Name Conax Buffalo Corporation (NPT Certificate Holder) Signed (Authorized representative) Ronald E. Farchmin

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of New YOrk and employed by Lumbermens Mutual Casualty Co. of Long Grove, IL. have inspected these items described in this data report on 12/19/84, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/19/84 Signed J. A. Thomas (Authorized Inspector) Commissions OHIO COMMISSIONED NB7710 PA2534 NY2705
(Nat'l Bd (incl endorsements) state or prov and no.)

QA-E.E.
W.J.K.

DEC 21 1984

Plan No. 2-0250

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner: Washington Public Power Supply System (Name)
3000 George Washington Way, Richland, WA. 99352 (Address)
Date: 7/21/86
Sheet: 1 of 1

2. Plant: WNP-2 (Name)
Hanford, Benton County, WA. 99352 (Address)
Unit: N/A

3. Work Performed by: WPPSS (Name)
3000 Geo. Wash. Way, Richland, WA (Address)
WPPSS Repair Organization P.O No., Job No., etc.

4. Identification of System: Containment Exhaust Purge (CEP), Containment Supply Purge (CSP)

5. (a) Applicable Construction Code: ASME III 19 71 Edition: W73 Addenda, Code Cases: None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases: N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CEP(1)-1B	WPPSS	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2
CSP(1)-1B	WPPSS	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2

7. Description of Work: Modified Containment Exhaust Purge (CEP) system and Containment Supply Purge (CSP) system: The modification work was performed as follows:

1. Installed "dams" by welding plate to the ID of the pipe.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks: None
(Applicable Manufacturer's Data Reports to be attached)

* - CEP(1)-1B-P1
* - CSP(1)-1B-P1

Plan No. 2-0250

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R L Webster (Owner or Owner's Designee) Plant Technical Manager (Title) 7/16 (Date) .19 86

K Smith 7/10/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 7/2 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0251

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)

4. Identification of System Standby Service Water System

5. (a) Applicable Construction Code ASME III 19 74 Edition, S75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SW-V-92	B-W	28630	N/A	N/A	N/A	1978	Repaired	Yes, Class 3

7. Description of Work Repaired standby service water (SW) valve SW-V-92. The repair work was performed as follows:

1) Cut body to bonnet seal weld.
2) Lapped valve seating surfaces.
3) Reassembled valve internals.
4) Installed bonnet into valve body and torqued it to the required torque value.
5) Made body to bonnet seal weld.
6) Performed PT examination on the final seal weld. PT examination results acceptable.
7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 212 psig Test Temp amb °F Component Design Pressure 3600 psig Temp. 100°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

B-W = Borg Warner

Plan No. 2-0251

CERTIFICATE OF COMPLIANCE

- certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

[signature] 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on SEPT. 9 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 [signature] (Inspector) Commissions 74474W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0252

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(55)-2	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified residual heat removal (RHR) line RHR(55)-2. The modification field work was performed as follows:
1) Cut out existing nipple.
2) Install new piping material and valve RHR-V-254.
3) Made required socket welds.
4) Performed PT examination on final socket weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks See attached NPV-1 Code Data Report for new valve RHR-V-254, S/N 13749
(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0252

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R.L. Johnson Plant Technical Manager 6/25 ,19 86
(Owner or Owner's Designee) Title (Date)

K. Smith 6/19/83

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 8/26 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 D.L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

DRC YA 215 12185
0B160

Plan No. 2-0252
K Emp's 10/3/85

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. Order No. 47713
(Name & Address of Manufacturer)

2. Manufactured for Bovee & Crail/G.E.R.I. P.O. Box 1040, Richland, Washington 99352 Order No. 215-32610
(Name and Address)

3. Owner WPPSS Hanford #2 Job Site S/N 13749

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/N 76590 3/4 Inch, Y Type, Globe, S.W., C.S.

Serial Numbers 13738 Thru 13762 (25 Valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 76590 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No.

6. Design Conditions 3600 psi (Pressure) 100 °F (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1

Edition 1972, Addenda Date Winter '73, Case No.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	1N89, 1N90, 1P05			
Disc -	Code 1P07, 1P15	Stellite # 6		
Casting	73876		REX PRECISION	
Machined -	73877		NV Division	
(b) Forgings				
Body -	Code 1N80	SA 105		
Forging -	75235		PACIFIC FORGE	
Machined -	75236		NV Division	
Assembly -	73899		NV Division	
Backseat -	Code 1L43	SA 564 Type 630		
Forged Stock			DUCOMMUN METALS	
Machined -	73886		NV Division	

RECEIVED
SCHNITZ CONTROL
BY

*Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1, 2, and 3 on this data report is included on each sheet, and (3) each sheet is referenced to this data report and signed by the Manufacturer.

2 2 5 1 8 9 4

REG FR 215 12185

0D160

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			

RECEIVED
BECHTEL CORPORATION
BY:

8. Hydrostatic test 5400 To 5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca.

Stress analysis report on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA

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

Stress analysis report certified by Byron Leonard Jr (1) Prof. Eng. State CA Reg. No. E123

(1) Signature not required. List name only.

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

Date JANUARY 28, 19 77 Signed Nuclear Valve Div. of Borg Warner (Manufacturer) By R. Palmer

Certificate of Authorization No. N-1254 expires October 27, 1978

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 Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on JANUARY 28, 19 77 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date JANUARY 28 19 77

(Inspector) Commissions (National Board, State, Province and No.)

Printed in U.S.A. (Form)

Plan No. 2-0253

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner: Washington Public Power Supply System (Name)
3000 George Washington Way, Richland, WA. 99352 (Address)
Date: 7/7/86
Sheet: 1 of 1

2. Plant: WNP-2 (Name)
Hanford, Benton County, WA. 99352 (Address)
Unit: N/A

3. Work Performed by: WPPSS (Name)
3000 Geo. Wash. Way, Richland, WA. (Address)
WPPSS
Repair Organization P.O No., Job No., etc.

4. Identification of System: Hydraulic (HY) System

5. (a) Applicable Construction Code: ASME III 19 71 Edition, W73 Addenda, Code Cases: None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases: N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HY(1)-6S	WPPSS	*	N/A	N/A	N/A	1983	Repaired	Yes, Class 2

7. Description of Work: Repaired field weld FW47C1 in hydraulic system line HY(1)-6S. The repair field work was performed as follows:

1. Cut and removed existing failed weld.
2. Prepped the areas for rewelding. Performed PT examination on the prepped areas. PT examination results acceptable. Performed UT examination on the prepped area for minimum wall thickness check. UT examination results acceptable.
3. Made socket weld FW47C1-1.
4. Performed PT examination on the final socket weld. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1890 psig Test Temp 77 °F Component Design Pressure 2200 psig Temp. 185°F

9. Remarks: None
(Applicable Manufacturer's Data Reports to be attached)

* HY(1)-6S-B

Plan No. 2-0253

CERTIFICATE OF COMPLIANCE

e certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/25 .19 86
(Owner or Owner's Designee) Title (Date)

K. Gaugler 6/19/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on July 18 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7/86 [signature] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0254-1
Plan No. 2-0254-2

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. 99352 (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Reactor Recirculation (RRC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
B35-G001B	GE	*	N/A	N/A	N/A	1983	Modified **	Yes, Class 1

7. Description of Work Modified Reactor Recirculation (RRC) decontamination flange connections. The modification work was performed as follows:

- ASME Section XI Plan No. 2-0254-1
  1. Removed existing decontamination blind flanges.
  2. Installed pressure transducer assembly.
  3. Performed pressure test. Pressure test results acceptable.

- ASME Section XI Plan No. 2-0254-2
  1. Removed pressure transducer assembly.
  2. Reinstalled original blind flanges and torqued the bolting material to the required torque value.
  3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1005 psig Test Temp 545 °F Component Design Pressure 1650 psig 1250 psig Temp. 575°F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* - B35-G001B-P1 1650 psig suction side
** - Removal and reinstallation 1250 psig discharge side

Plan No. 2-0254-1
Plan No. 2-0254-2

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification ** conforms to Section XI of the ASME Code.

Signed R. Weber (Owner or Owner's Designee) Plant Technical Manager (Title) 7/16 (Date), 19 86

V.E. Wolf 7/16/86.

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 Washington, employed by Lumbermens Mutual Casualty Co., of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 6/9, 19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0255

FPC-V-149

Replaced existing manually operated valve with motor operated valve. Made circumferential butt welds. Performed RT on circumferential butt welds. RT results acceptable. Performed hydrostatic test on new welds. No evidence of leakage during hydrostatic test.

Plan No. 2-0256

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA (Address)
4. Identification of System Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FPC-V-149	*	W0177A	N/A	N/A	N/A	1980	Modification	Yes, Class 2

7. Description of Work Modified fuel pool cooling (FPC) valve FPC-V-149 by capping valve leak off connection. The modification work was performed as follows:

1) Installed pipe cap on the leak off connection.
2) Made socket weld.
3) Performed PT examination on the socket weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* Hirata Valve Industry Co.

Plan No. 2-0256

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R. C. Hebrin Plant Technical Manager 6/25 19 86
(Owner or Owner's Designee) Title (Date)

K. Bruce 6/19/86.

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on OCT. 17 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/3/86 N. L. Jones (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0257

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Containment Exhaust Purge (CEP) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CEP(1)-1B	WPPSS	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2

7. Description of Work Modified Containment Exhaust Purge (CEP) system. The modification work was performed as follows:

1. Cut piping to accomodate installation of flanges.
2. Installed flanges and made socket welds.
3. Performed MT examination on the socket welds. MT examination results acceptable.
4. Installed and torqued the bolting material to the required torque value.
5. Performed pneumatic test to confirm pressure boundary integrity. No evidence of leakage during the pneumatic test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
Test Pressure 56 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* - CEP(1)-1B-P1

Plan No. 2-0257

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R Welpin (Owner or Owner's Designee) Plant Technical Manager (Title) 7/16 (Date), 19 86

KSupp 7/15/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 11/16, 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0258

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Post Accident Sampling System
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PSR-V-X77A-1	TR	1	N/A	N/A	N/A	1982	Repaired	Yes, Class 1
PSR-V-X77A-2	TR	4	N/A	N/A	N/A	1982	Repaired	Yes, Class 1

7. Description of Work Repaired Post Accident Sampling valves PSR-V-X77A-1 and PSR-V-X77A-2.
The repair work was performed as follows:

1. Cut body to bonnet seal weld.
2. Removed valve internals and performed rework.
3. Prepped seal weld areas on the valve body and bonnet.
4. Performed PT examination on the prepped areas. PT examination results acceptable.
5. Reassembled valve internals.
6. Installed bonnet into the valve body and torqued it to the required torque value.
7. Made body to bonnet seal weld.
8. Performed PT examination on the final seal weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

TR - Target Rock Corporation

Plan No. 2-0258

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 7/16 .19 86
(Owner or Owner's Designee) Title (Date)

N Swob 7/15/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 7/2 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0258R1

PI(1)-4S-X77Ac

Weld repaired gauge on 1" pipe near valve PSR-V-X77A-1. Performed PT and RT examination of repaired area. Examination results acceptable.

Plan No. 2-0259

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Instrument Line PI(1)-4S-X72F
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 2

7. Description of Work Modified support B220-HGR-1006-33 for valve PI-V-X253 in instrument line PI(1)-4S-X72F.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ NONE
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* - PI(1)-4S-X72F
JCI - Johnson Control, Inc.

Plan No. 2-0259

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R. Weber Plant Technical Manager 7/16 ,19 86
(Owner or Owner's Designee) Title (Date)

V Sauer 7/10/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 11/11 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0260

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Containment Exhaust Purge (CEP) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CEP(1)-1A	WPPSS	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2

7. Description of Work Modified Containment Exhaust Purge (CEP) system. The modification work was performed as follows:

1. Cut piping to accomodate installation of flanges.
2. Installed flanges and made socket welds.
3. Performed MT examination on the socket welds. MT examination results acceptable.
4. Installed and torqued the bolting material to the required torque values.
5. Performed pneumatic test to confirm pressure boundary integrity. No evidence of leakage during the pneumatic test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
Test Pressure 56 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* - CEP(1)-1A-P1

Plan No. 2-0260

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R C Welsh (Owner or Owner's Designee) Plant Technical Manager (Title) 7/16 (Date) .19 86

K. Sauer 7/15/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2/10 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0261

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Reactor Feedwater (RFW) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, Code Cases 1516
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RFW-V-32B	A/D	IN-110	N/A	N/A	N/A	1975	Modified	Yes, Class 1

7. Description of Work Modified leak off connection for valve RFW-V-32B. The modification work was performed as follows:

1. Removed existing pipe plug.
2. Installed new pipe plug.
3. Seal welded the pipe plug to the valve body.
4. Performed PT examination on the seal weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure ____ psi Test Temp ____ °F Component Design Pressure ____ Temp. ____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

A/D - Anchor Darling

Plan No. 2-0261

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R C Wilson Plant Technical Manager 7/16 .19 86
(Owner or Owner's Designee) Title (Date)

K Stwob 7/16/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 11/16 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Chance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0262

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Reactor Water Cleanup (RWCU) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, S73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU-V-4	Velan	0040	N/A	N/A	N/A	1977	Modified	Yes, Class 1

7. Description of Work Modified leak off connection for valve RWCU-V-4. The modification work was performed as follows:

1. Removed existing pipe plug.
2. Machined new pipe plug.
3. Performed PT examination on the machined surfaces of the pipe plug. PT examination results acceptable.
4. Installed new pipe plug.
5. Seal welded the pipe plug to the valve body.
6. Performed PT examination on the seal weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other [XX] None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0262

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R.L. Webster Plant Technical Manager 7/16 ,19 86
(Owner or Owner's Designee) Title (Date)

K Swe 7/15/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 11/16 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0263

PI(1)-ST(IR-67)-10
PI(1)-ST(IR-68)-9
PI(1)-ST(IR-69)-16
PI(1)-ST(IR-71)-12

Installed flanges for relief valves REA-RV-1&2 and ROA-RV-1&2. Made required socket welds. Performed PT examinations. PT results acceptable.

Plan No. 2-0264
through 2-0270

H_2O_2 Analyzers

Replaced existing H_2O_2 analyzer sample system with a new sample system. Installed new tubing and piping material, valves and supports from H_2O_2 bottles through sample racks CMS-SR-13 and CMS-SR-14 to/from wetwell/drywell sample points. Performed PT examination on welds. PT results were acceptable.

Plan No. 2-0271

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/25/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME III 19 71/1977 Edition, S71/W77 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-HX-2A	A/S&K	79283	598	N/A	N/A	1980	Modified	Yes, Class 2

7. Description of Work Modified tube side outlet line from residual heat removal seal cooler RHR-HX-2A. The modification work was performed as follows:

1. Cut and removed section of existing tubing.
2. Installed new pipe and piping material.
3. Made required welds.
4. Performed PT examination on the final welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

A/S&K = Ametek/Schutte and Koerting

Plan No. 2-0271

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 7/25 19 86
(Owner or Owner's Designee) Title (Date)

K Snyder 7/23/86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 7/21 19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/25/86 [illegible] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0272

PSR-V-X77A3
PSR-V-X77A4

Made valve body to bonnet seal weld. Performed PT examinations on seal weld. PT results acceptable.

Plan No. 2-0274

RWCU-FT-15
RWCU-FT-41

Rerouted instrument tubing and piping to RWCU-FT-15 and RWCU-FT-41. Made required welds.

Plan No. 2-0276

MSLC-FT-3A&3C

Rerouted instrument tubing to MSLC-FT-3A & 3C. Made required welds. Performed PT examination on welds. PT results were acceptable.

Plan No. 2-0277

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by General Electric Company* (Name) Contract No. C-20535
175 Curtner Ave. San Jose, CA (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Reactor Recirculation System (RRC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308**
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
B35-G001A	GE	B35-G001A-P1	None	N/A	N/A	1983	Repair	Yes, Class 1
B35-G001B	GE	B35-G001B-P1	None	N/A	N/A	1983	Repair	Yes, Class 1
4RRC(4)-4S	WPPSS	RRC(51)-4-P1	None	N/A	N/A	1983	Repair	Yes, Class 1

7. Description of Work Performed Induction Heating Stress Improvement (IHSI) on 23 four inch circumferential welds and 12 sweepolet welds in the reactor recirculation (RRC) piping system. ASME Section XI Plan No. 2-0277 provides for the implementation of the IHSI process. However, only the Inservice Inspection (ISI), the attachment and removal of thermocouples to the pressure boundary and PT of the removal area is considered to be within the jurisdiction of ASME Section XI. The ASME Section XI work performed in accordance with Plan No. 2-0277 is as follows:

1. Attached thermocouples to the pressure boundary for IHSI process.
2. Removed thermocouples from pressure boundary upon IHSI completion.
3. PT examined the thermocouple removal areas. PT examination results acceptable.
4. ISI examinations were a UT examination of all 35 welds before and after IHSI and an ISI PT examination of six welds after IHSI. UT and PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* The Owner performed the NDE.
** NB-4311.3, W81 Addenda used for thermocouple attachment.

Plan No. 2-0277

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed R C Webring (Owner or Owner's Designee) Plant Technical Manager (Title) 7/16 (Date), 19 86

KSmith 7/24/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 7/10, 19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 D. L. Vance (Inspector) Commissions 7447 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0278
2-0278R1

RRC-P-1B

Replaced "R-CON" flange for seal outlet piping from RRC-P-1B stuffing box. Made required welds. Performed PT examination on welds. PT results acceptable.

Plan No. 2-0278R1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/30/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Recirculation (RRC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, None Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-P-1B	B-W	B-2-1035	135	N/A	N/A	1974	Replacement	Yes, Class 1

7. Description of Work Replaced "R-Con" flange for seal outlet piping from Reactor Recirculation pump RRC-P-1B stuffing box. The replacement work was performed as follows:

1. Cut and removed existing "R-Con" flange and a section of pipe.
2. Installed new pipe piece and new design "R-Con" flange.
3. Made required socket welds.
4. Performed PT examination on the final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

B-W = Bingham-Willamette Co.

Plan No. 2-0278R1

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 7/30 .19 86
(Owner or Owner's Designee) Title (Date)

[illegible] 7/30/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 7/21 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/30/86 [illegible] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0280
2-0280R1
2-0280R2

CIA-V-21

Replaced valve in Containment Instrument Air system. Made required welds. Performed PT examinations on welds. PT results acceptable. Made valve body to bonnet seal weld. Performed PT examination on seal weld. PT results were acceptable.

Plan No. 2-0280R1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/30/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CIA(3)-2	WPPSS	*	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced valve in Containment Instrument Air system. The replacement work was performed as follows:

1. Cut and removed existing valve CIA-V-21.
2. Installed new valve and pipe.
3. Made required socket welds.
4. Performed PT examination on final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached NPV-1 Code Data Report for new CIA-V-21 valve serial No. 24558.
(Applicable Manufacturer's Data Reports to be attached)

*CIA(3)-2-P1

Plan No. 2-0280R1

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 7/30 .19 86
(Owner or Owner's Designee) Title (Date)

K Sauer 7/30/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 7/25 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/30/86 [illegible] (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

0B326
PLAN NO. 2-0280R1

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

As Required by the Provisions of the ASME Code Rules

CIA-V-21
S/N 24558

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. (Name & Address of Manufacturer) Order No. 47713

2. Manufactured for Bovee & Crail/G.E.R.I. P.O. Box 1040, Richland, Washington 99352 (Name and Address) Order No. 215-32610

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/N 76750-1, 3/4 Inch Y Lift Check Valve, CS

Serial Numbers 24555 thru 24558 (4 Valves)
(Brief description of service for which equipment was designed)

CVI NO. 02-215-09-127.1

(a) Drawing No. 76750-1 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No.

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F

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

Edition 1971, Addenda Date Winter '73, Case No.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc - Code 1P47	Stellite #6		
Casting - 71256	per NMS 71043	Rex Precision	
Machined - 71637		NV Division	
(b) Forgings			
Body - Code 1D87	SA105		
Forging - 71217		Compton Forge	
Machined - 71227-11		NV Division	
Assembly - 71227-13		NV Division	
Bonnet - Code 1G20	SA105		
Forged Stock		Airco Viking	WBG BR 212 14924
Machined - 71578		NV Division	

REVIEWED
FEB 24 1982
BECHTEL QUALITY CONTROL
BY.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
(d) Other Parts				

8. Hydrostatic test 5400-5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca.

Stress analysis report on file at N/A

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

Stress analysis report certified by N/A (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Date April 14 19 77 Signed Nuclear Valve Div. of Borg Warner (Manufacturer) By Carol M. Parker

Certificate of Authorization No. 1254 expires October 27, 1978

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of California and employed by Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on April 14 19 77, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date April 14 19 77

[signature] (Inspector) Commissions California (National Board, State, Province and No.)

2 1 2 9 0 0 6 1 5

FOR INSPECTOR USE ONLY

Plan No. 2-0280R2

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/30/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)

4. Identification of System Containment Instrument Air (CIA) System

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CIA-V-21	B-W	24558	N/A	N/A	N/A	1977	Repaired	Yes, Class 2

7. Description of Work Repaired Containment Instrument Air (CIA) valve CIA-V-21. The repair work was performed as follows:

1. Cut body to bonnet seal weld.
2. Removed valve internals and performed rework.
3. Reassembled valve internals.
4. Installed bonnet into valve body and torqued it to the required torque value.
5. Made body to bonnet seal weld.
6. Performed PT examination on the final seal weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

B-W = Borg Warner

Plan No. 2-0280R2

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed R. L. [illegible] Plant Technical Manager 7/30 ,19 86
(Owner or Owner's Designee) Title (Date)

K. Sauer 7/23/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair's) or Replacement(s) described in this Report on 7/25 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/20/86 D. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0282

PI-EFC-30A & 30F
PI-EFC-29B & 29F

Installed test connection between root valve and excess flow check valve. Made required welds. Performed PT examination on welds. PT results were acceptable.

Plan No. 2-0284

RHR(1)-4B1

Modified piping support RHR-2264-22. Made required welds.

Plan No. 2-0285

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/30/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)

4. Identification of System Containment Instrument Air (CIA) System

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CIA-V-33B	B-W	25382	N/A	N/A	N/A	1977	Repaired	Yes, Class 2

7. Description of Work Repaired Containment Instrument Air valve CIA-V-33B. The repair work was performed as follows:

1. Cut body to bonnet seal weld.
2. Removed valve internals and performed rework.
3. Reassembled valve internals.
4. Installed bonnet into body and torqued it to the required torque value.
5. Made body to bonnet seal weld.
6. Performed PT examination on the final seal weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

B-W = Borg Warner

Plan No. 2-0285

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 7/30/ .19 86
(Owner or Owner's Designee) Title (Date)

[illegible] 7/25/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 7/17 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/30/86 D. L. Vance (Inspector) Commissions 7447 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0286

SW(21)-2
SW(22)-2

Modified support SW-939N. Made required welds.

Plan No. 2-0287

PI(1)-4S-X75A & X75B

Reinstalled support B220-780-41. Made required welds.

Plan No. 2-0288

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/25/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by Bechtel Power Corp (Name) C-20069
P.O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Reactor Water Clean Up System (RWCU)
5. (a) Applicable Construction Code ASMEIII 19 71 Edition, W71 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU-HX-1A	GE	223395	54361	N/A	N/A	1972	Replacement	Yes, Class 3

7. Description of Work Replaced diaphragm plate on RWCU-HX-1A channel head. The replacement work was performed as follows:

1) Removed flange cover from the channel head.
2) Removed existing diaphragm plate by grinding the seal weld.
3) Preped the channel head facing.
4) Seal welded new diaphragm plate to the channel head.
5) MT examined the final seal weld. MT examination results acceptable.
6) Reinstalled flange cover and the bolting.
7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1200 psi Test Temp 420 °F Component Design Pressure 1450 psia Temp. 575 °F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

GE - General Electric
WPPSS - Washington Public Power Supply System

Plan No. 2-0288

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed R. L. Welch Plant Tech. Manager 7/23 ,19 86
(Owner or Owner's Designee) Title (Date)

R. Gwo 7/23/86

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s), or Replacement(s)) described in this Report on 7/21 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/25/86 W. L. Cave (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0289

RCIC(13)-4CL2

Replaced level switch RCIC-LS-N010. Made required welds. Performed PT examinations on welds. PT results were acceptable.

Plan No. 2-0290

RCC(36)-1

Installed couplings. Made required welds.

Plan No. 2-0291

RHR(1)-4B
RHR(1)-2B

Modified drain line for RHR-V-184. Deleted drain line for RHR-V-61. Performed PT examination on welds. PT results were acceptable.

Plan No. 2-0292

RCC(36)-1
RRC(51)-1

Installed flanges. Made required welds. Performed PT examinations on welds. PT results acceptable. Performed hydrostatic test on RCC(36)-1. No evidence of leakage during the hydrostatic test.

Plant No. 2-0294

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/25/86.
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name)
3. Work Performed by Bechtel Power Corp. (Address) C-20069 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Name)
4. Identification of System Service Water (SW) System (Address)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SW(1)-2UG	WPPSS	*	N/A	N/A	N/A	1983	Repaired	Yes, Class 3

7. Description of Work Repair pits on the ID surfaces of the flange and elbow in the Service Water System. The repair work was performed as follows-

1) Preped the flange and elbow surfaces for weld repair.
2) Filled all pits with weld metal.
3) Ground all welded areas flush with the contour of inside surfaces.
4) Performed MT and RT examinations. MT and RT examination results acceptable

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* SW(1)-2UG-P1

Plan No. 2-0294

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [illegible] Plant Tech. Manager 7/25, 19 86
(Owner or Owner's Designee) Title (Date)

[illegible] 7/23/86

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 Washington, employed by Lumbermen's Mutual Casualty of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 7/21, 19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/25/86 [illegible] (Inspector) Commissions 74474W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0295

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/7/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash, Way, Richland, WA (Address)
4. Identification of System Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASMEIII 19 71 Edition, W73 Addenda, Code Cases None.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FPC-V-104	B-W	16707	N/A	N/A	N/A	1978	Repaired	Yes, Class 1

7. Description of Work Repaired Fuel Pool Cooling (FPC) valve FPC-V-104. The repair work was performed as follows:

1) Cut body to bonnet seal weld.
2) Removed valve internals and performed rework.
3) Reassembled valve internals.
4) Installed bonnet into valve body and torqued it to the required torque value.
5) Made body to bonnet seal weld.
6) Performed PT examination on the final seal weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

B-W Borg Warner

Plan No. 2-0295

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [illegible] Plant Tech. Mgr. 7/23/ .19 86
(Owner or Owner's Designee) Title (Date)

K Carson 7/23/86.

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 7/21 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/25/86 [illegible] (Inspector) Commissions 7447 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0296

RCIC(13)-4CL2

Repaired support RCIC-33 and modified RCIC-34. For RCIC-33 performed weld build-up. Performed MT examination on weld. MT results were acceptable. Replaced RCIC-34 snubber with a rigid support.

Plan No. 2-0297

MS(1)-4A
MS(1)-4B
MS(1)-4C
MS(1)-4D

Modified MS drip leg supports. Replaced snubbers with rigid supports. Performed MT examinations on selected welds. MT results were acceptable.

Plan No. 2-0298

RCIC(1)-4CL1

Replaced and welded hanger rod to beam bracket for support RCIC-129

Plan No. 2-0299

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/30/86.
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)

4. Identification of System Reactor Recirculation (RRC) System

5. (a) Applicable Construction Code ASMEIII 19 71 Edition: None Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-P-1B	B-W	B-2-1035	135	N/A	N/A	1974	Replacement	Yes, Class 1

7. Description of Work Replaced existing flanges with "R-Con" flanges for piping connecting to reactor recirculation pump RRC-P-1B stuffing box. The replacement work was performed as follows -

1) Cut and removed existing flange.
2) Installed "R-Con"
3) Made required socket welds
4) Performed PT examination on the final socket welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0299

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed. [illegible] Plant Tech. Manager 7/30 ,19 86
(Owner or Owner's Designee) Title (Date)

K Gwen 7/30/86.

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 Washington, employed by Lumbermen's Mutual Casualty of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 7/25 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/30/86 [illegible] (Inspector) Commissions 7447(W) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

RRC-V-19

Made valve body to bonnet seal weld. Performed PT on seal weld. Performed PT on seal weld. PT results were acceptable.

Plan No. 2-0302

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/30/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O. No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Core Injection Cooling (RCIC) System
5. (a) Applicable Construction Code ASMEIII 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC(12)-4-CL1	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 1

7. Description of Work Modified Reactor Core Injection Cooling System by installing low point drain line. The modification work was performed as follows-
1) Installed required pipe and fittings material.
2) Made required socket welds.
3) Performed PT examinations on the final welds. PT examination results acceptable

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*RCIC(12)-4-CL1-P1

Plan No. 2-0302

CERTIFICATE OF COMPLIANCE

e certify that the statements made in this report are correct and this modification conforms to Section XI of the ME Code.

ned [illegible] Plant Tech. Manager 7/30 .19 86
(Owner or Owner's Designee) Title (Date)

[illegible] 7/29/86.

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 Washington, employed by Lumbermen's Mutual Casualty of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 7/29 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/30/86 [illegible] (Inspector) Commissions 5470 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0303

MS(1)-4C

Installed lugs for support MS-1427-15. Made required welds. Performed MT examinations on the welds MT results were acceptable.

Plan No. 2-0304

RCIC(12)-4CL1

. Replaced existing PSA-1 snubber on support RCIC-IC-4 with PSA-3 snubber.

Plan No. 2-0305

MS(1)-4C

Replaced and seal welded pipe up downstream of valve MS-V-177B. Performed PT examination on seal weld. PT results were acceptable.

Plan No. 2-0307

CAC(1)-1

Replaced existing valve CAC-V-4 with new valve. Made circumferential butt welds. Performed RT examination on circumferential butt welds. RT results acceptable. Performed pneumatic test. No evidence of leakage during pneumatic test.

Plan No. 2-0308

CPCS(3)-1

Modified drain line (with valve LPCS-V-58). Made required welds. Performed PT examinations. PT results were acceptable.

Plan No. 2-0309

RCIC(16)-1

Modified support RCIC-5. Made required welds.

Plan No. 2-0310

RCC(36)-1

Modified supports RCC-150, RCC-151 and RCC-161. Made required welds.

Plan No. 2-0311

MS(1)-4B

Modified support MS-147. Replaced PSA-10 snubber with PSA-35 snubber. Made required welds.

Plan No. 2-0313

SW-V-2B

Repaired by welding pits on the ID surfaces of SW-V-2B. Machined welded areas. Performed MT and RT examinations on repaired area. MT results were acceptable. The results of the RT examination were evaluated by fracture mechanics and found acceptable.

Plan No. 2-0314

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 7/21/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Recirculation (RRC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, None Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-P-1B	B-W	B-2-1035	135	N/A	N/A	1974	Replacement	Yes, Class 1

7. Description of Work Replaced the stuffing box, studs and nuts for reactor recirculation pump RRC-P-1B. The replacement work was performed in accordance with the WNP-2 plant procedures and operating and maintenance manual furnished by the pump manufacturer Bingham-Willamette Company for pump RRC-P-1B. The replacement of ASME code stamped pressure boundary stuffing box and bolting material was performed as follows:

1. Disassembled and removed the pump internals.
2. Performed VT-1 and VT-3 examination on pump bowl, flange surfaces, new studs and nuts. VT examination results acceptable.
3. Performed UT examination on new studs. UT examination results acceptable.
4. Installed new stuffing box, existing mechanical seal, and other internal parts of pump.
5. Installed new bolting material and torqued to the required torque values.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test VT-2 examination.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1005 psig Test Temp 545 °F Component Design Pressure 1650 psig Temp. 575°F
9. Remarks See attached N-2 code data report for the stuffing box.
(Applicable Manufacturer's Data Reports to be attached)
S/N 1958984-2

B-W = Bingham-Willamette Company

Plan No. 2-0314

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed R C Wehrsen Plant Technical Manager 7/16 ,19 86
(Owner or Owner's Designee) Title (Date)

R Swift 7/18/86.

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 7/8 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/18/86 G. L. Vance (Inspector) Commissions 7447W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

PLAN NO. 2-0314 N-2 NPT code Data Report for new Stuffing box for RRC-P-1B

Rudolph Smith 6/13/86

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

As Required by the Provisions of the ASME Code Rules, Section III, Div. 1

CERTIFIED BY

1. (a) Manufactured by Bingham-Willamette Company Portland, OR 97210
(Name and address of NPT Certificate Holder)

(b) Manufactured for Washington Public Power Supply System
(Name and address of N-Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. Part [illegible] Nat'l Bd. No. 1177 CRN No.
(a) Conformance According to Drawing No. [illegible] Drawing Prepared by Bingham-Willamette Co
(b) Description of Part Inspected [illegible]
(c) Applicable ASME Code Section III, Edition 1971 ; Addenda date 1971 Summer Case No. N/A Class 1

3. Remarks Closure Head on Reactor Recirculation Pump
(Brief description of service for which component was designed.)

*Cooling Jacket is Class III Part.

Item 4-6 inclusive to be completed for single-wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell Material ASTM-A240-316L 79,800 .375 Nom. Thk. in. Corr. Allow. in. Diam. ft. in. Length ft. in.
(Kind & Spec. No.) (Min. of range specified)

5. Seams Long Butt Weld H.T.* None R.T. None Efficiency 70 %
Girth H.T.* R.T. No. of Courses

6. Heads (a) Material None T.S. (b) Material T.S.

Location (top, bottom, side)	Thickness	Crown Radius	Knuckle Radius	Effective Radius	Conical Apex Angle	Hemispherical Radius	Flat Diam.	Side to Pressure (convex or concave)
(a)								
(b)								

If removable, bolts used Other fastening
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure Full Fillet Weld
(Describe as type and weld, bar, etc. If bar, give dimensions, if bolted, describe or attach)

8. (a) Design Pressure* 150 psi at 575 °F (b) Min. Pressure-Test Temp. 230 °F 75

Items 9 and 10 to be completed for tube sections.

9. Tube Sheet: Stationary: Material Diam. in. Thk. in. Attachment
(Kind & Spec. No.) (Diameter to seat.) (Welded, bolted)
Floating: Material Diam. in. Thk. in. Attachment

10. Tubes Material O.D. in. Thk. in. or gage Number Type
(Straight or U)

Items 11-14 inclusive to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

11. Shell Material 304L CRM T.S. 91,650 2.25 Nom. Thk. in. Corr. Allow. in. Diam. ft. in. Length ft. in.
(Kind & Spec. No.) (Min. of range specified)

12. Seams Long None H.T.* R.T. Efficiency %
Girth H.T.* R.T. No. of Courses

13. Heads (a) Material None T.S. (b) Material T.S.

Location	Thickness	Crown Radius	Knuckle Radius	Effective Radius	Conical Apex Angle	Hemispherical Radius	Flat Diam.	Side to Pressure (convex or concave)
(a) Top, bottom, side								
(b) Channel								

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

14. (a) Design Pressure* 1650 psi at 575 °F (b) Min. Pressure-Test Temp. 2580 °F 75

*If separate heat-treated. †List other internal or external pressures with coincident temperature when applicable.
**Supplemental sheets in form of lists, sketches, or drawings may be used provided: (1) size is 8½ in. x 11 in.; (2) information in Items 1 and 2 of this Data Report is included on each sheet; and (3) each sheet is numbered and number of sheets is recorded in Item 3, Remarks.

(12/86) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

S.O. 13N53
ITEM CODE DATA REPORT
PAGE 2

FORM N-2 (Back)

Name below to be completed for all vessels where applicable.

15. Safety Valve Outlet: Number None Size _____ Location _____

16. Nozzles

Purpose (Inlet, outlet, drain, etc.)	Number	Size or Bore	Type	Material	Thickness	Reinforcement Material	How Attached
Outlet	4	1"		T1GL	.250		Full Pen Weld
Inlet	2	1"		T1GL	.250		Full Pen Weld

17. Inspection Openings: Manholes No. None Size _____ Location _____
Handholes No. _____ Size _____ Location _____
Threaded No. _____ Size _____ Location _____

18. Supports: Skirt None (Yes or No) Legs _____ (Number) Legs _____ (Number) Other _____ (Description) Attached _____ (Welded or Bolted)

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code, Section VIII.

(The applicable Design Specification and Design Report are sole responsibility of the NPT Certificate Holder for same. An NPT Certificate Holder for appurtenance is responsible for furnishing a complete Design Specification and Design Report if the appurtenance contained in the completed Design Specification and Design Report.)

Date 3/31 19 86 Signed Blackhawk-Willamette Co. J. L. Faulkner
NPT Certificate Holder

Certificate of Authorization Expires Feb 28, 1989 Certificate of Authorization No. N1633

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design Information on file at _____

Stress analysis report on file at _____

Design specification prepared by _____ Prof. Eng. State _____ Reg. No. _____

Stress analysis report prepared by _____ Prof. Eng. State _____ Reg. No. _____

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Oregon and employed by The Continental of Connecticut have witnessed the part of a pressure vessel described in this Partial Data Report on March 31, 1986, and state that, to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code, Section VIII.

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

Date 3/31 19 86

A. L. Ferris
Commissions A.S.I.S.E. Oregon

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 3/11/85
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 2
2. Plant WNP-2 (Name) Unit N/A.
Hanford, Benton County, WA. (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System CCH-RV-2A and 2B, relief valves for CCH piping system
5. (a) Applicable Construction Code ASME III 19 77 Edition, S77 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CCH-RV-2A	Crosby	*	N/A	N/A	**	1980	Altered***	Yes, Class 3
CCH-RV-2B	Crosby	*	N/A	N/A	**	1980	Altered***	Yes, Class 3

7. Description of Work Background -

Relief valves CCH-RV-2A and CCH-RV-2B (originally tagged as 4-NSW-V14B and 4-NSW-V14A) furnished by Crosby Valve and Gage Company for Supply System Plant WNP-4 and utilized on Supply System Plant WNP-2. The original design of these relief valves for WNP-4 called for a set pressure of 150 psig. The intended application of these relief valves for WNP-2 required a set pressure of 75 psig. The WNP-4 relief valves were altered (rerated) to meet WNP-2 design conditions as follows:

Alteration (Rerated)

The replacement parts (springs and washers) were furnished by Crosby (the original manufacturer for these relief valves) with the statement that the replacement parts are correct for set pressure of 75 psig. The WNP-4 relief valves were altered (rerated) to meet WNP-2 design conditions as follows: (continued on page 2 of 2)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Bench test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure 75 psig Temp. 200°F****
Set 150 psig 200°F*****
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WNP-2 EPN No.	Mfrs. Serial No. *	WNP-4 EPN No. **
CCH-RV-2A	N63032-00-46	4-NSW-V14B
CCH-RV-2B	N63032-00-45	4-NSW-V14A

*** Rerated
**** Rerated set pressure and temperature
***** Original set pressure and temperature

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this alteration conforms to Section XI of the ASME Code.

Signed [signature] Plant Tech. Manager 3/7, 19 85
(Owner or Owner's Designee) Title (Date)

K Bush 3/6/85

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the alteration (Repair(s) or Replacement(s)) described in this Report on 3-11, 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-11-85 [signature] (Inspector) Commissions 5470W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM CCH-RV-2A and CCH-RV-2B
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 3/11/85
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 2 of 2
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System CCH-RV-2A and 2B, relief valves for CCH piping system

7. Description of Work (continued)

1. Remove 150 psig set pressure parts (spring and washers) from both the valves.
2. Installed 75 psig set pressure parts (spring and washers) in each of the valves.
3. Bench tested each of the valve with water.
4. Bench test results for each of the valve is as follows:
   - o Simmer Pressure - 65 psig
   - o Opening Pressure - 75 psig
   - o Reseating Pressure - 65 psig
5. Bench test results satisfactory.
6. Installed both the valves in the piping system.
7. Installed additional plate stating "Set Pressure 75 psig, 4/16/84."

RRC-P-1A
RRC-P-1B

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 5/2/85
3000 George Washington Way, Richland, WA. (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)
3. Work Performed by WPPSS (Name) WPPSS (Repair Organization P.O No., Job No., etc.)
3000 Geo. Washington Way, Richland, WA (Address)
4. Identification of System Reactor Recirculation (RRC) System
5. (a) Applicable Construction Code ASME III 19 71 Edition, None Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-P-1A	B-W	B-2-1034	134	N/A	N/A	1974	Replacement	Yes, Class 1
RRC-P-1B	B-W	B-2-1035	135	N/A	N/A	1974	Replacement	Yes, Class 1

7. Description of Work Replaced mechanical seal cartridges for reactor recirculation pumps RRC-P-1A and RRC-P-1B. The replacement work was performed in accordance with the WNP-2 plant procedures and operating and maintenance manual furnished by the pump manufacturer Bingham-Willamette Company for pumps RRC-P-1A and RRC-P-1B. The replacement of code stamped mechanical seal cartridges was performed as follows:

1. Disassembled and removed mechanical seal interferences.
2. Removed existing mechanical seal cartridge assembly from each of the pumps.
3. Installed new code stamped mechanical seal cartridge assembly type RV875B-2 in each of the pumps.
4. Reassemble the pumps.
5. Performed inservice leak test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure * psi Test Temp * °F Component Design Pressure 1650 psig Temp. 575°F

9. Remarks See attached N-2 code data reports for mechanical seal cartridge assembly
(Applicable Manufacturer's Data Reports to be attached)
S/N 11N92-1 for RRC-P-1A and S/N 11N92-2 for RRC-P-1B.

B-W - Bingham-Willamette Company
* - Performed inservice leak test at full operating pressure with the pump running and the reactor at ≤5% thermal power.

RRC-P-1A
RRC-P-1B

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 5/2 ,19 85
(Owner or Owner's Designee) Title (Date)

[signature] 5/1/85

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~~ Washington, employed by Lumbermans Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on ** SEE BELOW ,19 ____

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-2-85 James H. Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

** RRC-P-1B INSPECTED ON 3-16-84
RRC-P-1A INSPECTED ON 3-30-84
James Brent 6265W

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 Bingham-Willamette Company, Portland, OR
(Name and address of Manufacturer of part)

(b) Manufactured for Washington Public Power Supply System, Richland, WA
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part 11N92 - 2 Nat'l Bd. No. 1079

(a) Constructed According to Drawing No. J1756 Drawing Prepared by Bingham-Willamette Company

(b) Description of Part Inspected Mechanical Seal Type RV875B-2

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date 1971, Case No. NONE Class 1

3. Remarks: To prevent liquids from escaping from pump. PB Parts consist of:
(Brief description of service for which component was designed)

a.) Seal Holder SN 149285-2b.) Gland-Upper Seal SN 1495283-2

Seal Hydrotested at 2575 PSI.

Note: Items 4-18 not applicable.

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

Date NOV 21 1983 19 Signed BINGHAM-WILLAMETTE COMPANY PORTLAND, OREGON (Manufacturer) By [signature]

Certificate of Authorization Expires February 28, 1986 Certificate of Authorization No. N-16-55

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at N/A.

Stress analysis report on file at N/A

Design specifications certified by N/A Prof. Eng. State ____ Reg. No. ____

Stress analysis report certified by N/A 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 Oregon and employed by Department of Commerce have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on NOV 21 1983 19, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date NOV 21 1983 19

[signature] Commissions NB 5836 OCSCC
Inspector's Signature National Board, State, Province and No.

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

S.O. 11N92-2
ITEM 1 N-2 Code Data Report
PAGE 2

FORM N-2 (back)

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

4. Shell: Material _____ T.S. _____ Nominal Thickness ____ in. Corrosion Allowance ____ in. Dia. ____ ft. ____ in. Length ____ ft. ____ in.
(Kind & Spec. No.) (Min. of Range Specified)

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

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

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

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

If removable, bolts used _____ (Material, Spec. No., T.S., Size, Number) Other fastening _____ (Describe or attach sketch)

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

8. Design pressure[1] 1650 psi at 575 °F

Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

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

Floating: Material _____ Dia. _____ Thickness ____ in. Attachment _____

10. Tubes: Material _____ O.D. ____ in. Thickness _____ inches or gage. Number _____ Type _____ (Str. or U)

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

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

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

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

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

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

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

14. Design pressure[1] _____ psi at _____ °F

Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

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

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
Openings: Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

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

[1] If Estimated Base Stress _____

S.O. 11N92-2
ITEM 1N-2 Code Data Report
PAGE 3

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 Bingham-Willamette Company, Portland, OR
(Name and address of Manufacturer of part)

(b) Manufactured for Washington Public Power Supply System, Richland, WA
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part 11N92 - 1 Nat'l Bd. No. 1078

(a) Constructed According to Drawing No. J1756 Drawing Prepared by Bingham-Willamette Company

(b) Description of Part Inspected Mechanical Seal type RV875B-2 Pressure Boundary

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date 1971, Case No. NONE Class 1

3. Remarks: To prevent liquids from escaping from pump. (PB) Parts consist of:
(Brief description of service for which component was designed)

a.) Seal Holder SN 149285-1b.) Gland-Upper Seal SN 1495283-1

Seal Hydrotested at 2575 PSI

Note: Items 4-18 not applicable.

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

Date NOV 21 1983 19 Signed BINGHAM-WILLAMETTE COMPANY PORTLAND, OREGON (Manufacturer) By [signature]

Certificate of Authorization Expires February 28, 1986 Certificate of Authorization No. N-16-55

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design Information on file at N/A

Stress analysis report on file at N/A

Design specifications certified by N/A Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by N/A 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 Oregon and employed by Department of Commerce have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on NOV 21 1983 19, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date NOV 21 1983 19

[signature] Commission NB 8036 OR State
Inspector's Signature — National Board, State, Province and No.

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

S.O. 11N92-1
ITEM 1 N2 Code Data Report
PAGE 2

FORM N-2 (back)

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

4. Shell: Material _____ T.S. _____ Nominal Thickness ____ in. Corrosion Allowance ____ in. Dia. ____ ft. ____ in. Length ____ ft. ____ in.
(Kind & Spec. No.) (Min. of Range Specified)

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

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

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

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

If removable, bolts used _____ (Material, Spec. No., T.S., Size, Number) Other fastening _____ (Describe or attach sketch)

7. Jacket Closure _____
(Describe as edge weld, bar, etc. If bar give dimensions, if welded, describe or sketch)

8. Design pressure[1] 1650 psi at 575 °F Drop Weight _____ Charpy Impact _____ ft-lb at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

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

Floating, Material _____ Dia. _____ Thickness ____ in. Attachment _____

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

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

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

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

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

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

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

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

14. Design pressure[1] _____ psi at _____ °F Drop Weight _____ Charpy Impact _____ ft-lb at temp. of _____ °F

Items below to be completed for all vessels where applicable.

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

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Openings: Manholes, No. _____ Size _____ Location _____
Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

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

If Postweld Heat Treated, _____

S.O. 11N92-1
ITEM 1N-2 Code Data Report
PAGE 3

MWR AU-3767

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Miscellaneous Drains
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(1)-4B	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replace snubber on hanger MD-1287-11 with new snubber.
— Replacement snubber information is as follows:

MD-1287-11 PSA-1/4 S/N 379

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-208 and MWR AU-3767.

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] (Owner or Owner's Designee) Plant Technical Manager (Title) 6/11 (Date), 19 86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12, 19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

---PACIFIC SCIENTIFIC COMPANY---

1346 SO STATE COLLEGE BLVD
ANAHEIM, CALIFORNIA 92803
Telephone (714) 774 5217
TELEX 65-5421

1/4

CERTIFICATE OF CONFORMANCE

NPS INDUSTRIES, INC.	75-2004-1
Customer	Customer P.O.
1801104-05	ANC 18042-01
Part Number	Sales Order No.

25	376 thru 400	7-31-76
Quantity Shipped	Serial Number	Date Shipped

- THE MATERIALS AND/OR PARTS FURNISHED UNDER THE ABOVE PURCHASE ORDER WERE PRODUCED FROM MATERIALS FOR WHICH CHEMICAL AND/OR PHYSICAL TEST REPORTS OR OTHER EVIDENCE OF CONFORMANCE TO APPLICABLE SPECIFICATIONS ARE ON FILE SUBJECT TO EXAMINATION. (MATERIAL MATRIX ATTACHED)
- ALL PROCESSES INVOLVED IN THE PRODUCTION OF THESE PARTS WERE PERFORMED IN ACCORDANCE WITH APPLICABLE GOVERNMENT OR CUSTOMER SPECIFICATIONS AND OBJECTIVE EVIDENCE IS ON FILE SUBJECT TO EXAMINATION.
- ALL ITEMS WERE FUNCTIONALLY TESTED AND ACCEPTED IN ACCORDANCE WITH PACIFIC SCIENTIFIC COMPANY INSPECTION TEST PROCEDURE NO. 527, REV. H. REPORTS ARE ON FILE SUBJECT TO EXAMINATION.

SC/F REVIEWED
DATE 3-9-82
BY MGS
15Q 3.21.3.X.1
RET: L

7/31/76
for P. A. Hadnagy, Q.A. Manager

WBG BR 215 17110

DOCUMENT REVIEWED

QA Manager	Date 9/27-77

B&C/G.I. #215
CHECKED BY DMT DATE 9/27/77

ubscribed and sworn to before me

his _____ day of _____.

_____
(Notary)

MWR AU-3767

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Fuel Pool Cooling
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FPC(5)-2	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work Replaced both snubbers of hanger FPC-228 with new snubbers. Replacement snubber information is as follows:

FPC-228 North PSA-1/2 S/N 2463
FPC-228 South PSA-1/2 S/N 390

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure ____ psi Test Temp ____ °F Component Design Pressure ____ Temp. ____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)
Reference documents NCR 286-210 and MWR AU-3767

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/11/ .19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Kin-Tech Division

PACIFIC SCIENTIFIC

Date: February 3, 1978

B&C/G.E.R.I. JOB
CHECKED BY ___ DATE ___

CERTIFICATE OF CONFORMANCE

NPS INDUSTRIES, INC.	75-2004-4
Customer	Customer P.O.
1801104-07 (PSA-4)	ANC 23536-02
Part Number(s)	PSCo ANC(s)
100	2461 thru 2490, 2516 thru 258[illegible]
Quantity Shipped	Serial Number(s)

We, Pacific Scientific, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF.

Code cases applicable: 1644-6 ~~[illegible]~~.

Edition: 1974, Addenda: Winter 1976 (Note 1.)

Note: 1. Current Manufacturing complies with the 1974 Edition and all of the mandatory addenda through the winter of 19[illegible] We, certify that the addenda required after the 1974 Edition does not degrade the product below the level of requirements stated in the applicable drawings and/or specifications.

SC/F REVIEWED
DATE ___

WBG BR 210 17110

Documentation Packages are being sent under separate cover by certified mail to the attention of: NPS Industries, Inc.
2750 Southwest Moody
Portland, Oregon 97201

D.A. Hadnagy, Q.A. Manager

Subscribed and sworn to before me

this ___ day of ___.

(Notary)

SC/F REVIEWED
DATE 2-1-82
BY TES
3.21.3

NF
WBG BR 215

11/30/77

Pacific

1346 SO. STATE COLLEGE BLVD
ANAHEIM, CALIFORNIA 92803
Telephone (714) 774-5217
TELEX 65-5421

REFERENCE: P.O. No. 75-2004-1
NPS Industries, Inc.

PSCo P.O. No. ANC 18042-06
P/N 1801104-07 (PSA-1/2)
S/N 362 thru 436

SC/F
REVIEWED
DATE 3-9-82
BY MES
150 3.21.3.21

RET: L

TO WHOM IT MAY CONCERN:

We, Pacific Scientific Company, 1346 S. State College Blvd., Anaheim, California, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF Article NF 2000-1074 edition, including the winter of 1975 addenda.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF, Article NF 4000-1974 edition including the winter of 1975 addenda.

Code Cases applicable: 1644 Rev. 4, 1651, 1685, 1686, 1706 and 1728

WBG BR 215 171

P. A. Hadnagy, Q. A. Manager

B&C/G.E.P.L. JOB #215
CHECKED BY [illegible] DATE 9/27/77

Subscribed and sworn to before me

this 13th day of September 1976.

Jeanne R. Cockendall
(Notary)

OFFICIAL SEAL
JEANNE R. COCKENDALL
NOTARY PUBLIC-CALIFORNIA
PRINCIPAL OFFICE IN
ORANGE COUNTY
My Commission Expires April 23, 1980

DOCUMENT
REVIEWED
Manager | Date 9/27-77

WBG BR 215 47288

MWR AU-3767

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Miscellaneous Drains
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(1)-4D	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced snubber on MD-1290-11B with new snubber.
Replacement snubber information is as follows:

MD-1290-11B PSA-1/4 S/N 378

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-208 and MWR AU-3767.

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/11 .19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

---PACIFIC SCIENTIFIC COMPANY----

1346 SO STATE COLLEGE BLVD
ANAHEIM, CALIFORNIA 92803
Telephone (714) 774 5217
TELEX 65-5421

1/4

CERTIFICATE OF CONFORMANCE

NPS INDUSTRIES, INC.	75-2004-1
Customer	Customer P.O.
1801104-05	ANC 18042-01
Part Number	Sales Order No.

25	376 thru 400	7-31-76
Quantity Shipped	Serial Number	Date Shipped

THE MATERIALS AND/OR PARTS FURNISHED UNDER THE ABOVE PURCHASE ORDER WERE PRODUCED FROM MATERIALS FOR WHICH CHEMICAL AND/OR PHYSICAL TEST REPORTS OR OTHER EVIDENCE OF CONFORMANCE TO APPLICABLE SPECIFICATIONS ARE ON FILE SUBJECT TO EXAMINATION. (MATERIAL MATRIX ATTACHED)

ALL PROCESSES INVOLVED IN THE PRODUCTION OF THESE PARTS WERE PERFORMED IN ACCORDANCE WITH APPLICABLE GOVERNMENT OR CUSTOMER SPECIFICATIONS AND OBJECTIVE EVIDENCE IS ON FILE SUBJECT TO EXAMINATION.

ALL ITEMS WERE FUNCTIONALLY TESTED AND ACCEPTED IN ACCORDANCE WITH PACIFIC SCIENTIFIC COMPANY INSPECTION TEST PROCEDURE NO. 527, REV. H. REPORTS ARE ON FILE SUBJECT TO EXAMINATION.

SC/F REVIEWED
DATE 3-9-82
BY TMS
15D 3.2/.3.2.1
RET: L

Alshad A. 7/31/76
for P. A. Hadnagy, Q.A. Manager

WBG BR 215 17110

DOCUMENT REVIEWED

QA Manager	Date
	9/27-77

B&C/G.I. ... #215
CHECKED BY ... DATE 9/28/77

Subscribed and sworn to before me

this _____ day of _____.

_____
(Notary)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Main Steam
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(1)-4A	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work Replaced snubber on hanger MS-2619-311 with new snubber.
Replacement snubber information is as follows:

MS-2619-311 PSA-1/2 S/N 102

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference document NCR 286-211 and MWR AU-3767.

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/11 ,19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Pacific

1346 SO. STATE COLLEGE BLVD.
ANAHEIM, CALIFORNIA 92803
Telephone (714) 774-5217
TELEX 65-5421

REFERENCE: NPS Industries, Inc.
P.O. No. 75-2004-1
PSCo P.O. No. 18042-03
P/N 1801104-07 (PSA-1/2), S/Ns 100-124

SC/F
REVIEWED
DATE 3-9-82
BY MES
150 3.21.2.4
RETAL

TO WHOM IT MAY CONCERN:

We, Pacific Scientific Company, 1346 S. State College Blvd., Anaheim, California, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF Article NF 2000-1074 edition, including the winter of 1975 addenda.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF, Article NF 4000-1974 edition including the winter of 1975 addenda.

Code Cases applicable: 1644 Rev. 4, 1651, 1685, 1686, 1706 and 1728

WBG BR 215 47285

P. A. Hadnagy, Q. A. Manager

Subscribed and sworn to before me
this 13th day of August 1976.

BRC/O.F. R.I. JOB #215
CHECKED BY DKT DATE 9/28/77

WBG BR 215 17110

Jeanne R. Coykendall
(Notary)

OFFICIAL SEAL
JEANNE R. COYKENDALL
NOTARY PUBLIC-CALIFORNIA
PRINCIPAL OFFICE IN
ORANGE COUNTY
My Commission Expires April 28, 1980

DOCUMENT
REVIEWED
QA Manager
Date 9/27-77

1346 S. STATE COLLEGE BLVD., ANAHEIM, CA 92803

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Name) (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Main Steam Leakage Control
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(1)-4C	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work Replaced snubber on hanger MSLC-2822-12 with new snubber.
Replacement snubber information is as follows:

MSLC-2822-12 PSA-1/2 S/N 121

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-208 and MWR AU-3767.

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/11/ .19 86
(Owner or Owner's Designee) Title (Date)

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 Washington employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Pacific

1346 SO. STATE COLLEGE BLVD.
ANAHEIM, CALIFORNIA 92803
Telephone (714) 774-5217
TELEX 65-5421

REFERENCE: NPS Industries, Inc.
P.O. No. 75-2004-1

PSCo P.O. No. 18042-03
P/N 1801104-07 (PSA-1/2), S/Ns 100-124

SC/F
REVIEWED
DATE 3-9-82
BY MES
150 3.21.2.8.17
RET. L

TO WHOM IT MAY CONCERN:

We, Pacific Scientific Company, 1346 S. State College Blvd., Anaheim, California, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF Article NF 2000-1074 edition, including the winter of 1975 addenda.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF, Article NF 4000-1974 edition including the winter of 1975 addenda.

Code Cases applicable: 1644 Rev. 4, 1651, 1685, 1686, 1706 and 1728

WBG BR 215 4728B

P. A. Hadnagy, Q. A. Manager

BAC/O.F.D.I. JOB #215
CHECKED BY DMT DATE 9/28/77

Subscribed and sworn to before me

this 13th day of August 1976.

WBG BR 215 17110

Jeanne R. Coykendall
(Notary)

OFFICIAL SEAL
JEANNE R. COYKENDALL
NOTARY PUBLIC-CALIFORNIA
PRINCIPAL OFFICE IN
ORANGE COUNTY
My Commission Expires April 28, 1980

1346 S. STATE COLLEGE BLVD., ANAHEIM, CA 92803

DOCUMENT
REVIEWED
QA Manager
Date 9/27-77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Core Isolation Cooling
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC(1)-4CL2	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced snubber for hanger RCIC-100 with new snubber.
Replacement snubber information is as follows:

RCIC-100 PSA-1/2 S/N 2464
(WEST)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure ____ psi Test Temp ____ °F Component Design Pressure ____ Temp. ____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-209 and MWR AU-3767.

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/11 ,19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Kin-Tech Division

PACIFIC SCIENTIFIC

Date: February 3, 1978

B&C/G.E.R.I. JOB
CHECKED BY ___ DATE

CERTIFICATE OF CONFORMANCE

NPS INDUSTRIES, INC.	75-2004-4
Customer	Customer P.O.
1801104-07 (PSA-4)	ANC 23536-02
Part Number(s)	PSCo ANC(s)
100	2461 thru 2490, 2516 thru 259
Quantity Shipped	Serial Number(s)

We, Pacific Scientific, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF.

Code cases applicable: 1644-6 ~~[illegible]~~.

Edition: 1974, Addenda: Winter 1976 (Note 1.)

~~Note:~~ 1. Current Manufacturing complies with the 1974 Edition and all of the mandatory addenda through the winter of 19 We, certify that the addenda required after the 1974 Edition does not degrade the product below the level of requirements stated in the applicable drawings and/or specifications.

SC/F REVIEWED
DATE ___

WBG BR 210 17110

Documentation Packages are being sent under separate cover by certified mail to the attention of: NPS Industries, Inc.
2750 Southwest Moody
Portland, Oregon 97201

J.A. Hadnagy, Q.A. Manager

Subscribed and sworn to before me

this ___ day of ___.

SC/F REVIEWED
DATE 2-1-82
BY TES
3.21.5

(Notary)

NF

WBG BR 215

11/30/77

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A
3000 Geo. Wash. Way, Richland, WA (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Residual Heat Removal
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC(2)-1	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced snubber for hanger RHR-400 with new snubber.
— Replacement snubber information is as follows:

RHR-400 PSA-1/2 S/N 4012

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-141 and MWR AU-3767.

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/11/ .19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

WBG BR 215 15932

Project Division

PACIFIC SCIENTIFIC

Date: November 16, 1978

CERTIFICATE OF CONFORMANCE

WSH/BOECON/GERI	215-103340
Customer	Customer P.O.
1801104-07 (PSA-4)	ANC 27842-01
Part Number(s)	PSCO ANC(s)
50	3999 thru 4048
Quantity Shipped	Serial Number(s) REFERENCE

We, Pacific Scientific, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF.

SC/F REVIEWED DATE 12-23-81

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF, with the following exceptions:

N-Stamping not required and third party inspection not required.

Code cases applicable: 1644-5 ~~XXXXXXXXX~~

Edition: 1974, Addenda: Winter 1976 (Note 1.)

Note: 1. Current Manufacturing complies with the 1974 Edition and all of the mandatory addenda through the winter of 1976. We, certify that the addenda required after the 1976 Edition does not degrade the product below the level of requirements stated in the applicable drawings and/or specifications.

REVIEWED MAR 16 1982 BECHTEL QUALITY CONTROL

Documentation Packages are being sent under separate cover by registered mail to the attention of: Mike Donovan
WSH/BOECON/GERI
P.O. Box 1040
Richland, WA 99352

P.A. Hacnagy, Q.A. Manager

Subscribed and sworn to before me

this _____ day of _____.

SC/F REVIEWED DATE 2-26-82 BY [illegible]

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Residual Heat Removal
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(1)-2B	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced snubber on hanger RHR-441 with new snubber.
— Replacement snubber information is as follows:

RHR-441 PSA-1/2 S/N 4034

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-121 and MWR AU-3767.

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/11/ ,19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 [signature] (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

MSG BR 215 15932

Pacific Division

PACIFIC SCIENTIFIC

Date: November 16, 1978

CERTIFICATE OF CONFORMANCE

WSH/BOECON/GERI	215-103340
Customer	Customer P.O.
1801104-07 (PSA-L)	ANC 27842-01
Part Number(s)	PSCo MNC(s)
50	3999 thru 4048
Quantity Shipped	Serial Number(s) Retention

We, Pacific Scientific, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF, with the following exceptions:

N-Stamping not required and third party inspection not required.

Code cases applicable: 1644-5 ~~XXXXXXXXX~~

Edition: 1974, Addenda: Winter 1976 (Note 1.)

Note: 1. Current Manufacturing complies with the 1974 Edition and all of the mandatory addenda through the winter of 1976. We, certify that the addenda required after the 1974 Edition does not degrade the product below the level of requirements stated in the applicable drawings and/or specifications.

SC/F REVIEWED DATE 2-26-82 By L. Bennett

REVIEWED MAR 16 1982 BECHTEL QUALITY CONTROL

Documentation Packages are being sent under separate cover by registered mail to the attention of: Mike Donovan
WSH/BOECON/GERI
P.O. Box 1040
Richland, WA 99352

P.A. Hadnagy, Q.A. Manager

Subscribed and sworn to before me

this _____ day of _____.

SC/F REVIEWED DATE 2-26-82 By L. Bennett

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Name) (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Residual Heat Removal
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(4)-1A	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced snubber on hanger RHR-4605-41A with new snubber.
Replacement snubber information is as follows:

RHR-4605-41A PSA-1/4 S/N 6211

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-142 and MWR AU-3767.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 6/11/ ,19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 [signature] (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Division

Date: ~~November 16, 1978~~

PACIFIC SCIENTIFIC

MCC BR 215 15932

CERTIFICATE OF CONFORMANCE

WSH/BOECON/GERI	115-103840
Customer	Customer P.O.
1801104-05 (PSA-4)	ANC 27642-04
Part Number(s)	PSCo ANC(s)
25	6209 thru 6233
Quantity Shipped	Serial Number(s)

We, Pacific Scientific, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF, with the following exceptions:

N-Stamping not required and third party inspection not required.

Code cases applicable: 1644-5 ~~XXXXXXXX~~

Edition: 1974, Addenda: Winter 1976 (Note 1.)

Note: 1. Current Manufacturing complies with the 1974 Edition and all of the mandatory addenda through the winter of 1976. We, certify that the addenda required after the 1974 Edition does not degrade the product below the design requirements stated in the applicable drawings and specifications.

REVIEWED

MAR 16 1982

BECHTEL QUALITY CONTROL

Documentation Packages are being sent under separate cover by registered mail to the attention of: Mike Donovan
WSH/BOECON/GERI
P.O. Box 1040
Richland, WA 99352

P.A. Hadnagy, Q.A. Manager

Subscribed and sworn to before me

this _____ day of _____.

(Notary)

SC/F REVIEWED
DATE 2-26-82
BY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Recirculation
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC(51)-4	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work Replaced snubber on hanger RRC-1946-31 with new snubber.
— Replacement snubber information is as follows:

RRC-1946-31 PSA-1/4 S/N 396

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure ____ psi Test Temp ____ °F Component Design Pressure ____ Temp. ____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference document MWR AU-3767.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/4 .19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

---PACIFIC SCIENTIFIC COMPANY---

1346 SO STATE COLLEGE BLVD
ANAHEIM, CALIFORNIA 92803
Telephone (714) 774 5717
TELEX 65-5421

1/4

CERTIFICATE OF CONFORMANCE

NPS INDUSTRIES, INC.	75-2004-1
Customer	Customer P.O.
1801104-05	ANC 18042-01
Part Number	Sales Order No.

25	376 thru 400	7-31-76
Quantity Shipped	Serial Number	Date Shipped

THE MATERIALS AND/OR PARTS FURNISHED UNDER THE ABOVE PURCHASE ORDER WERE PRODUCED FROM MATERIALS FOR WHICH CHEMICAL AND/OR PHYSICAL TEST REPORTS OR OTHER EVIDENCE OF CONFORMANCE TO APPLICABLE SPECIFICATIONS ARE ON FILE SUBJECT TO EXAMINATION. (MATERIAL MATRIX ATTACHED)

ALL PROCESSES INVOLVED IN THE PRODUCTION OF THESE PARTS WERE PERFORMED IN ACCORDANCE WITH APPLICABLE GOVERNMENT OR CUSTOMER SPECIFICATIONS AND OBJECTIVE EVIDENCE IS ON FILE SUBJECT TO EXAMINATION.

ALL ITEMS WERE FUNCTIONALLY TESTED AND ACCEPTED IN ACCORDANCE WITH PACIFIC SCIENTIFIC COMPANY INSPECTION TEST PROCEDURE NO. 527, REV. H. REPORTS ARE ON FILE SUBJECT TO EXAMINATION.

SC/F REVIEWED
DATE 3-9-82
BY MGS
15a 3.21.3.X.1
RET: L

7/31/76
for P. A. Hadnagy, Q.A. Manager

WBG BR 215 17110

DOCUMENT REVIEWED
QA Manager | Date 9/27-77

B&C/G.I. #215
CHECKED BY RJT DATE 9/27/77

Subscribed and sworn to before me

this _____ day of _____.

_____
(Notary)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Standby Liquid Control
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SLC(2)-4S	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work Replaced snubber on hanger SLC-4475-122 with new snubber.
Replacement snubber information is as follows:

SLC-4475-122 PSA-1/4 S/N 28441

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-143 and MWR AU-3767.

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/11/ .19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265-W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NF-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS*

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

Kin-Tech Division

1. Manufactured by Pacific Scientific 1346 S. State College Blvd. Anaheim, CA 92803
(Name and address of NPT Certificate Holder)

2. Manufacturer for National Valve & Mfg. Co. P.O.BOX 100 Pittsburgh, PA 15230
(Name and address of purchaser or owner)

3. Location of Installation Unknown

4. Identification

	(a) Component Support I.D. No.	(b) Canadian Registration No.	(c) Applicable Drawings with Last Rev. & Date	(d) Stress Report or Load Capacity Data Sheet	(e) Type of Component Support	(f) Class	(g) Nat'l Board No.	(h) Year B
(1)	28420	NONE	1801104-05-J	DR 1412 Rev.0	Linear	1	NONE	198
(2)	thru							
(3)	28469							
(4)								
(5)								
(6)								
(7)								
(8)								
(9)								
(10)								

5. Remarks:

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these components supports conform to the rules of constructi of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1977 Addenda Winter '79 (Date)

Code Case No. 1644-6

Date 4/3/82 Signed Pacific Scientific (NPT Certificate Holder) by Ronald G. Neal

Our ASME Certificate of Authorization No. 1198 to use the "NPT" (NPT)

Symbol expires Aug. 4, 1984 (Date).

CERTIFICATION OF DESIGN

Design Information on File at Pacific Scientific

Stress Report or Load Capacity Data Sheets on File at:
Pacific Scientific
Filed Per NCA 3256

Design Specifications Certified by (1) James E. Glauser PE State California

Reg. No. 8424.

Stress Analysis Report or Load Capacity Data Sheets Certified by (1) James E. Glauser

PE State Calif. Reg. No. 8424.

(1) List name only, signature not required.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in., (2) information in items 1, 2, 4c, 4g 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.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by HSBI&I Co. of Hartford, CT have inspected the component supports described in this Data Report on SEP. 3 1982, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component supports in accordance with the ASME Code for Nuclear Power Plant Components.

FOR INFORMATION ONLY

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports 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 SEP. 3 1982

Signed [signature] Commissions CA-1513 / PA-WC2731
(Nat'l Bd., State, Prov., and No.)

CERTIFICATION OF FIELD 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 _____ of _____ have compared the statements in this Data Report with the described component supports and state that the parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component supports in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports 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 _____
(Nat'l Bd., State, Prov., and No.)

BECHTEL
254

PACKING COPY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Main Steam
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(9)-4	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work Replaced snubber on hanger MS-1369-13 with new snubber.
Replacement snubber information is as follows:

MS-1369-13 PSA-1/2 S/N 2147

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference document MWR AU-3767.

MWR AU-3767

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/11 ,19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265 W. (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Kin-Tech Division

Date: January 3, 1978

DOCUMENT REVIEWED
QC Supervisor | Date 1-11-78

PACIFIC SCIENTIFIC

CERTIFICATE OF CONFORMANCE

NPS INDUSTRIES, INC.	75-2004-4
Customer	Customer P.O.
1801104-07 (PST-1)	ANC 23536-01
Part Number(s)	PSCo ANC(s)
100	2088 thru 2187
Quantity Shipped	Serial Number(s)

We, Pacific Scientific, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF.

Code cases applicable: 1644-6 ~~xxxxxxxxx~~

Edition: 1974, Addenda: Winter 1976 (Note 1.)

Note: 1. Current Manufacturing complies with the 1974 Edition and all of the mandatory addenda through the winter of 19 We, certify that the addenda required after the 1974 Edition does not degrade the product below the level of requirements stated in the applicable drawings and/or specifications.

SC/F REVIEWED
DATE 3-9-81
BY
3.21.3.

WBG BR 215 171

Documentation Packages are being sent under separate cover by certified mail to the attention of: NPS Industries, Inc.
6876 Fathom St., N.
Portland, OR 97217

R.A. Hadnagy, Q.A. Manager

Subscribed and sworn to before me

this _____ day of _____.

(Notary)

DOCUMENT REVIEWED
QC Supervisor | Date 1-12-75

NF

WBG BR 215

B&C/G.E.R.I. JOB #21
CHECKED BY DATE 1-19-78

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Name) (Address)
3. Work Performed by WPPSS (Name) N/A
3000 Geo. Wash. Way, Richland, WA (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Reactor Recirculation
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC(5)-4S-A	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced snubber on hanger RRC-1552-12 with new snubber.
Replacement snubber information is as follows:

RRC-1552-12 PSA-1/4 S/N 300

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-208 and MWR AU-3767.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [illegible] Plant Technical Manager 6/11 ,19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/12 ,19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

PACIFIC SCIENTIFIC COMPANY
1346 SO STATE COLLEGE BLVD
ANAHEIM, CALIFORNIA 92803
Telephone (714) 774-5217
TELEX 65-5421

1/4

CERTIFICATE OF CONFORMANCE

NPS INDUSTRIES, IN C. (Customer)	75-2004-1 (Customer P.O.)
1801104-05 (Part Number)	ANC 18042-01 (Sales Order. No.)
40 (Quantity Shipped) — 280 thru 319 (Serial Number)	7-31-76 (Date Shipped)

THE MATERIALS AND/OR PARTS FURNISHED UNDER THE ABOVE PURCHASE ORDER WERE PRODUCED FROM MATERIALS FOR WHICH CHEMICAL AND/OR PHYSICAL TEST REPORTS OR OTHER EVIDENCE OF CONFORMANCE TO APPLICABLE SPECIFICATIONS ARE ON FILE SUBJECT TO EXAMINATION. (MATERIAL MATRIX ATTACHED)

ALL PROCESSES INVOLVED IN THE PRODUCTION OF THESE PARTS WERE PERFORMED IN ACCORDANCE WITH APPLICABLE GOVERNMENT OR CUSTOMER SPECIFICATIONS AND OBJECTIVE EVIDENCE IS ON FILE SUBJECT TO EXAMINATION.

ALL ITEMS WERE FUNCTIONALLY TESTED AND ACCEPTED IN ACCORDANCE WITH PACIFIC SCIENTIFIC COMPANY INSPECTION TEST PROCEDURE NO. 527, REV. H. REPORTS ARE ON FILE SUBJECT TO EXAMINATION.

SC/F
REVIEWED
DATE 3-9-82
BY 265
15R 3.21.3.2.1
RET: L

7/31/76
for P. A. Hadnagy, Q.A. Manager

CHECKED BY DATE

DOCUMENT REVIEWED
QA Manager — Date 9/27/77

ribed and sworn to before me

_____ day of _____.

_____
(Notary)

WDG BR 215 4728B

WDG BR 215 17

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 5/29/86
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Reactor Core Isolation Cooling
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC(13)-4CL2	WPPSS	N/A	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Deleted snubbers for hangers RCIC-44 and RCIC-962N

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks Reference document MWR AU 5182
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed R. Wehrin (Owner or Owner's Designee) Plant Technical Manager (Title) 6/12/ (Date), 19 86

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the Modification (Repair(s) or Replacement(s)) described in this Report on 6/13/ 86, 19 ____

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/13/86 James Brant (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

MWR AU 5408

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date May 29, 1986
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) N/A Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Main Steam
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(1)-4B	WPPSS	N/A	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced both snubbers on hanger MS-151 with new snubbers.
Replacement snubber information is as follows:

MS-151 Top PSA-3 S/N 236
MS-151 Bottom PSA-3 S/N 202

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Operability Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____
9. Remarks See attached document for replacement snubbers.
(Applicable Manufacturer's Data Reports to be attached)

Reference documents NCR 286-145 and MWR AU 5408

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed R C Weber Plant Technical Manager 6/12/ .19 86
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 6/13 .19 86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/13/86 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Kin-Tech Division

PACIFIC SCIENTIFIC

SC/F REVIEWED
DATE 3-9-82
BY
150 3.2/3.3.1
RET: L

REFERENCE: P.O. No. 75-2004-1
NPS Industries, Inc.

PSCo P.O. No. ANC 18042-08
P/N 1801106-05 (PSA-3)
S/N 200 thru 219

TO WHOM IT MAY CONCERN:

We, Pacific Scientific Company, 1346 S. State College Blvd., Anaheim, California, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF, Article NF 2000-1974 edition, including the winter of 1975 addenda.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF, Article NF 4000-1974 edition, including the winter of 1975 addenda.

Code Cases applicable: 1644 Rev. 4, 1651, 1685, 1686, 1706 and 1728.

P. A. Hadnagy, Q. A. Manager

WBG BR 215 17110

Subscribed and sworn to before me

this 21st day of September 1976.

Jeanne R. Coykendall
(Notary)

DOCUMENT REVIEWED
QA Manager | Date 9/27-77

OFFICIAL SEAL
JEANNE R. COYKENDALL
NOTARY PUBLIC CALIFORNIA
PRINCIPAL OFFICE IN
ORANGE COUNTY
My Commission Expires April 29, 1980

1346 S. STATE COLLEGE BLVD., ANAHEIM, CA 92801

B&C/G.F.R.I. JOB #.
CHECKED BY RST DATE 9/28

WBG BR 215 47286

Kin-Tech Division

PACIFIC SCIENTIFIC

SC/F REVIEWED
DATE 3-9-82
BY TES
150 3.21.3.X
RET: L

REFERENCE: P.O. No. 75-2004-1
NPS Industries, Inc.
PSCo P.O. No. ANC 18042-12
P/N 1801106-05 (PSA-3)
S/N 230 thru 249

TO WHOM IT MAY CONCERN:

We, Pacific Scientific Company, 1346 S. State College Blvd., Anaheim, California, certify that the materials supplied on the referenced order comply with all the requirements of ASME Section III, Subsection NF, Article NF 2000-1974 edition, including the winter of 1975 addenda.

We also certify that the fabrication complies with the requirements of ASME Section III, Subsection NF, Article NF 4000-1974 edition, including the winter of 1975 addenda.

Code Cases applicable: 1644 Rev. 4, 1651, 1685, 1686, 1706 and 1728.

P. A. Hadnagy, Q.A. Manager

WBG BR 210 17110

DOCUMENT REVIEWED

QA Manager	Date
	9/27-77

Subscribed and sworn to before me

this 28th day of October 1976.

Jeanine R. Cryderdall
(Notary)

OFFICIAL SEAL
JEANINE R. CRYDERDALL
NOTARY PUBLIC - CALIFORNIA
PRINCIPAL OFFICE IN
ORANGE COUNTY
My Commission Expires April 26, 1980

1346 S. STATE COLLEGE BLVD., ANAHEIM, CA 92803

B&C/G.E.R.I. JOB #215
CHECKED: RWL 9/28/80

WBG BR 215 47286

CIA-RV-5A and
CIA-RV-5B

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 1/3/86
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Containment Instrument Air (CIA)
5. (a) Applicable Construction Code ASME III 19 74 Edition, 12/31/78 Addenda, Code Cases N242
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CIA-RV-5A	JEL	*	N/A	N/A	N/A	1982	Altered	Yes, Class 3
CIA-RV-5B	JEL	*	N/A	N/A	N/A	1982	Altered	Yes, Class 3

Description of Work Relief valves CIA-RV-5A and CIA-RV-5B were altered (rerated) to prevent system over-pressurization during the post LOCA environment. The alteration work to reset relief valves set pressure from 200 SCFM to 159 SCFM was performed as follows:

1) Removed 200 SCFM set pressure parts (spring and spring steps).
2) Installed 159 SCFM set pressure parts (spring and spring steps).
3) Bench tested the valves with gas. Bench test results of opening pressure - 160 SCFM; reseating pressure - 155 SCFM and simmer pressure - 159 SCFM were satisfactory.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Bench test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure 200 SCFM Temp. 100°F**
Set 159 SCFM 100°F***
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

JEL = JE Lonergan Co.
* 509258-101-1 for CIA-RV-5A and 509258-102-1 for CIA-RV-5B

** Original set pressure and temperature
*** Rerated set pressure and temperature

CIA-RV-5A and
CIA-RV-5B

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this alteration conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 12/4 .19 87
(Owner or Owner's Designee) Title (Date)

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the alteration (Repair(s) or Replacement(s)) described in this Report on 4/6/ .19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/3/86 James Brent (Inspector) Commissions 6265 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

RCC-RV-34A and
RCC-RV-34B

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 12/11/85
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System Reactor Building Closed Cooling (RCC)
5. (a) Applicable Construction Code ASME III 19 71 Edition W 12/31/71 Addenda, Code Cases 1555 & 1574
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCC-RV-34A	*	**	N/A	N/A	N/A	1975	Altered	Yes, Class 3
RCC-RV-34B	*	**	N/A	N/A	N/A	1975	Altered	Yes, Class 3

7. Description of Work Relief valves RCC-RV-34A and RCC-RV-34B were altered (rerated) to meet revised design and operating pressures of the piping system. The alteration work to reset relief valve set pressure from 150 psig to 265 psig was performed as follows:

1) Removed 150 psig set pressure parts (spring and spring steps).
2) Installed 265 psig set pressure parts (spring and spring steps)
3) Bench tested the valve with water. Bench test results of opening pressure - 265 psig; reseating pressure - 249 psig were satisfactory.
4) Installed new name tags on each one of the valves with new set pressure.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Bench Test
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure 265 psig Temp. 400°F ***
150 psig 400°F ****
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* JE Lonergan Co. *** Rerated set pressure and temperature
** 307469-1-1, RCC-RV-34A **** Original set pressure and temperature
** 307469-1-2, RCC-RV-34B

RCC-RV-34A and
RCC-RV-34B

CERTIFICATE OF COMPLIANCE

certify that the statements made in this report are correct and this alteration conforms to Section XI of the ME Code.

ned. K J Conn Plant Technical Manager 12/4 .19 85
(Owner or Owner's Designee) Title (Date)

11/13/85

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the alteration (Repair(s) or Replacement(s)) described in this Report on 9/24 .19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12/11/85 James Brent (Inspector) Commissions 6265 W (State or Province, National Board)

te: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in.,) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered d the number of sheets is recorded at the top of this form.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner: Washington Public Power Supply System (Name) — Date 12/11/85
3000 George Washington Way, Richland, WA 99352 (Address) — Sheet 1 of 1
2. Plant: WNP-2 (Name) — Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by: WPPSS (Name) — WPPSS Repair Organization P.O No., Job No., etc.
3000 George Wash. Way, Richland, WA (Address)
4. Identification of System: Reactor Recirculation (RRC) System
5. (a) Applicable Construction Code: ASME III 19 71 Edition, None Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-P-1B	B-W	B-2-1035	135	N/A	N/A	1974	Replacement	Yes, Class 1

7. Description of Work: Replaced mechanical seal cartridges for reactor recirculation pump RRC-P-1B. The replacement work was performed in accordance with the WNP-2 plant procedures and operating and maintenance manual furnished by the pump manufacturer Bingham-Willamette Company for pump RRC-P-1B. The replacement of code stamped pressure boundary mechanical seal cartridges was performed as follows:

1) Disassembled and removed mechanical seal interferences.
2) Removed existing mechanical seal cartridge assembly.
3) Installed new code stamped mechanical seal cartridge assembly type RV875B-2.
4) Reassembled the pump.
5) Performed inservice leak test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 940 psig Test Temp 530 °F Component Design Pressure 1650 psig Temp. 575 °F

9. Remarks: See attached N-2 code data reports for mechanical seal cartridge assembly
(Applicable Manufacturer's Data Reports to be attached)
S/N 11N92-3 for RRC-P-1B

B-W = Bingham-Willamette Company

RRC-P-1B

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [signature] Plant Technical Manager 12/4 ,19 85
(Owner or Owner's Designee) Title (Date)

[signature] 11/13/85

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 Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 7/8 ,19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12/11/85 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by Bingham-Willamette Company, Portland, OR
(Name and address of Manufacturer of part)

(b) Manufactured for Washington Public Power Supply System, Richland, WA
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part 11N92 - 3 Nat'l Bd. No. 1080

(a) Constructed According to Drawing No. J1756 Drawing Prepared by Bingham-Willamette Company

(b) Description of Part Inspected Mechanical Seal Type RV875B-2

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date 1971, Case No. NONE Class 1

3. Remarks: To prevent liquids from escaping from pump. (PB) parts consist of: Pressure boundary part. [illegible]
(Brief description of service for which component was designed)

a.) Seal Holder SN 149285. b.) Gland-Upper Seal SN 1495283. c.) Thrust Ring SN 1513982-1

Seal Hydrotested at 2575 PSI.

Note: Items 4 - 18 not applicable.

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

Date DEC 8 1983 19 Signed BINGHAM-WILLAMETTE COMPANY PORTLAND, OREGON (Manufacturer) By [signature]

Certificate of Authorization Expires February 28, 1986 Certificate of Authorization No. N-1655

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at N/A

Stress analysis report on file at N/A

Design specifications certified by N/A Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by N/A 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 Oregon and employed by Department of Commerce have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on DEC 8 1983 19, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date DEC 8 1983 19

[signature] Commissions NB 5036 OR500
Inspector's Signature National Board, State, Province and No.

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

S.O. 11N92-3
ITEM 1 N2 Code Data Report
PAGE 2

FORM N-2 (back)

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

4. Shell: Material _____ (Kind & Spec. No.) T.S. _____ (Min. of Range Specified) Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.

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

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

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

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

If removable, bolts used _____ (Material, Spec. No., T.S., Size, Number) Other fastening _____ (Describe or attach sketch)

7. Jacket Closure _____ (Describe as open end weld, bar, etc. If bar give dimensions, if welded, describe or attach sketch)

8. Design pressure[1] 1650 psi at 575 °F

Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

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

Floating, Material _____ Dia. _____ Thickness _____ in. Attachment _____

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

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

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

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

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

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

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

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

14. Design pressure[1] _____ psi at _____ °F

Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlet: Number _____ Size _____ Location _____

16. Nozzles

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	Now Attached

17. Inspection Openings: Manholes, No. _____ Size _____ Location _____
Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

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

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

S.O. 11N92-3
ITEM 1-N2-Code Data Report
PAGE 3

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner: Washington Public Power Supply System (Name) — Date: 7/3/85
   3000 George Washington Way, Richland, WA. 99352 (Address) — Sheet: 1 of 1
2. Plant: WNP-2 (Name) — Unit: N/A
   Hanford, Benton County, WA. (Address)
3. Work Performed by: WPPSS (Name) — WPPSS (Repair Organization P.O No., Job No., etc.)
   3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System: Low Pressure Core Spray (LPCS)
5. (a) Applicable Construction Code: ASME III 19 74 Edition: W 12/31/74 Addenda, Code Cases: 1555
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases: N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LPCS-RV-18	*	**	N/A	N/A	N/A	1978	Altered (Rerated)	Yes, Class 2

7. Description of Work: Relief valve LPCS-RV-18 was altered (rerated) to meet revised design and operating pressures of the piping system. The alteration work to reset relief valve set pressure from 550 psig to 429 psig was performed as follows:

   1. Removed 550 psig set pressure parts (spring and spring steps).
   2. Installed 429 psig set pressure parts (spring and spring steps).
   3. Bench tested the valve with water. Bench test results of opening pressure - 429 psig; reseating pressure - 419 psig were satisfactory.
   4. Installed new ASME Code Data Plate on the valve.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Bench Test
   Test Pressure ____ psi Test Temp ____ °F Component ~~Design~~ Pressure Set 429 psig 550 psig Temp. 450°F *** 450°F ****
9. Remarks: None
   (Applicable Manufacturer's Data Reports to be attached)

* JE Lonergan Co.
** 509258-70-1
*** Rerated set pressure and temperature.
**** Original set pressure and temperature.

LPCS-RV-18

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this alteration conforms to Section XI of the ASME Code.

Signed [signature] Plant Tech. Manager 7/3 .19 85
(Owner or Owner's Designee) Title (Date)

K Smith 7/3/85

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 Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the alteration (Repair(s) or Replacement(s)) described in this Report on July 3, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date July 3, 1985 [signature] (Inspector) Commissions 7447-W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

8609150208

DIC 20.4
SS2-PE-86-0998

INTEROFFICE MEMORANDUM

DISTRIBUTION: MAIL DROP:

- [ ] WNP-1 FILE
- [x] WNP-2 FILE 964Y
- [ ] WNP-3 FILE
- [ ] WNP-4 FILE
- [ ] WNP-5 FILE
- [ ] HGP FILE
- [ ] PKWD FILE
- [ ] LEGAL FILE
- [ ] ADMIN FILE

LT Harrold	994E
PL Powell	956B
DL Whitcomb	982C
GLG/lb	982C
FJM/lb	982C

DATE: August 27, 1986

TO: G.W. Brastad, Technical Specialist (994E)

FROM: G.L. Gelhaus, Mgr. Nuclear Sys. & Analysis (982C)
D.L. Whitcomb for

SUBJECT: EVALUATION OF 10CFR50, APPENDIX R POSTULATED HYPOTHETICAL MAXIMUM FIRE SCENARIO - NEW MINIMUM BLOWDOWN CASE

REFERENCE:

This memo transmits Supply System calculation NE-02-86-10 Rev. 0, which was performed during April and May, based on advice and guidance from the Bethesda office of the NRC. The calculation evaluates the new minimum blowdown case with six valves (as opposed to the old three valve case) for the nonphysical maximum fire scenario derived from Title 10, Part 50, Appendix R of the Code of Federal Regulations. The postulated scenario starts with the hypothetical maximum fire, resulting in loss of all offsite power, which in turn causes reactor scram and containment isolation. Further postulated hypothetical consequences are:

- Loss of high pressure core spray (HPCS)
- Loss of reactor core isolation cooling (RCIC)
- Loss of low pressure core spray (LPCS)
- Loss of residual heat removal Loop A (RHR)
- Loss of RHR Loop C

The only remaining cooling train then consists of RHR Loop B and standby service water (SW) Loop B, which is sufficient for plant shutdown in the alternate safe shutdown mode (ASSM). For the minimum blowdown case, the hypothetical scenario is further amended by postulating that the maximum fire also affects the main control room such that use of the automatic depressurization system (ADS) is precluded. Plant operating personnel will then achieve reactor depressurization from the primary remote shutdown panel (PRSP) and the alternate remote shutdown panel (ARSP), each of which permits control of three relief valves.

Because of the importance of this issue it was decided that NE-02-86-10 should be verified by independent calculation, and General Electric Company (GE) was requested to analyze the identical scenario. The GE analysis was performed with the SAFE code, and the analysis report is included as Appendix 5 to NE-02-86-10. Since the GE analysis results were significantly less favorable than ours, a representative from the Nuclear Systems Group was sent to GE to resolve the differences. The details of this resolution are documented in Appendix 6 to NE-02-86-10. Three main items were determined to be the cause for the different results:

1. The GE analysis uses a generic pump curve (see FSAR Figure 6.3-9) with a shutoff head of 228 psid, while the WPPSS analysis used the actual RHR pump curve with a shutoff head of 303 psid.

2. The Supply System analysis did not include enough thermally active structural steel for stored heat release during depressurization.

3. The Supply System pump model did not consider the minimum flow line which bypasses flow necessary for pump cooling when the injection valves are closed. This bypass reduces the initial injection flow by about 500 gal/min.

The Supply System model was modified to account for these three areas and a comparison run made. The graphs in NE-02-86-10, Appendix 6 shows good agreement with the GE results.

The final results of the analysis are:

1. Total fuel uncovery time (liquid level below TAF = top of active fuel) is 3.0 min.

2. Lowest liquid level is 2.0 feet below TAF.

3. Upper bound estimate for peak cladding temperature is 788 F (421 C). No serious cladding damage (perforation and/or oxidation) is expected below 1700 F (927 C).

Based on the above results it can be stated that the plant is capable of tolerating this postulated hypothetical maximum fire scenario, minimum blowdown case.

The scenario has been examined for completeness with respect to bounding the event for worst case results. Possible variations (availability of offsite power, relief valves sticking open or being opened by hot shorts) will have a minimal effect of the numerical results and will not change the final conclusion.

FJM/jhd