INSERVICE INSPECTION SUMMARY REPORT
FOR
REFUELING OUTAGE RF90A
JUNE 27, 1989 TO AUGUST 7, 1990

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.: 8

Prepared by:	O. Jones ISI Engineer	10/10/90 Date
Reviewed by:	Thomas F. Hyle Supervisor, Code Programs	10/11/90 Date
	Richard C. Moon Manager, Materials and Inspection	10-11-90 Date
	C. R. Wells Manager, Engineering Systems Support	10/12/90 Date
	J T Harwood Manager, Generation Engineering	10/16/90 Date
	RR G Hoffelbaum Manager, Plant Technical	10/25/90 Date
	W D Dawson Manager, Plant Quality Assurance	10/26/90 Date
Approved by:	J W Baker Plant Manager	10/26/90 Date
Concurrence:	Dan Abegaard Authorized Nuclear Inspector-Inservice	10/26/90 Date

TABLE OF CONTENTS

EXAMINATION RESULTS

This report summarizes the results of inservice inspections (ISI) of ASME Code Class 1, 2 and 3 components and supports performed at Washington Public Power Supply System (Supply System) Nuclear Plant No. 2 (WNP-2) between June 27, 1989 and August 7, 1990. During this period, WNP-2 experienced one major scheduled outage, RF90A, for refueling (Spring 1990). Refueling Outage RF90A is the fifth refueling outage for WNP-2 and is also referred to as R5.

The ISI Periods and Outages for the First Interval, covering 12/13/84 to 12/13/94, are as follows:

Inspection Period	Refueling[1] Outage	From	To
1		12/13/84	09/15/85
	RF86A (R1)	03/31/86	06/10/86
	RF87A (R2)	04/13/87	06/25/87
	RF88A (R3)	05/02/88	06/27/88
2		09/16/88	09/13/91
	RF89A (R4)	04/28/89	06/30/89
	RF90A (R5)	04/21/90	08/07/90
	RF91A (R6)	04/15/91	06/15/91
3		09/14/91	12/13/94
	RF92A (R7)	04/15/92	06/15/92
	RF93A (R8)	04/15/93	06/15/93
	RF94A (R9)	04/15/94	06/15/94

(1) Assuming one refueling or maintenance outage each year. Actual timing of the spring outages for RF91A-RF94A may vary slightly due to BPA's hydroelectric capacity or outage scope Corresponding sequential outage designations concurrently used at WNP-2, are shown in parenthesis.

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

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

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 WNP-2 ISI Program Plan or is located in the WNP-2 Operations File. 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 included in the ISI Program Plan previously submitted to the NRC.

The examinations, tests, repairs and replacements were witnessed or verified by Authorized Nuclear Inspector-Inservice (ANI-I) D. Hoggarth. He is employed by Factory Mutual Systems, a subsidiary of Arkwright Mutual Ins. Co., Norwood, Massachusetts.

COMPONENTS EXAMINED

The following components were examined:

Component	Manufacturer	Serial Number	National Board No.
RPV	CBIN Nuclear 2700 Channel Ave. Memphis, TN	T-45	8
LPCS-V-6	Velan Engineering Co. 2125 Ward Ave. Montreal, Canada	0057	N/A
MS-V-22B	Rockwell Mfg. Co. 1900 S. Saunders Street Raleigh, NC	JT-37	69
MS-V-22C	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JT-54	70
MS-V-28B	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JS-98	96
MS-V-28C	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JU-17	77
RRC-V-60A	Hammel Dahl/Conoflow Div. ITT Grinnell Valve Co., Inc. 175 Post Road Warwick, RI	71/200 S/001A	N/A

The following number of components were examined during RF90A:

TYPE OF EXAMINATION PERFORMED[1]

	UT	PT/MT	VT	TESTING
CODE CLASS 1				
Piping Welds	67	51		
Welded Attachments		4		
RPV Nozzle Inner Radius	1			
RPV Welds	8			
Bolting	22	22	72[2]	
Valves	6			
Component Supports			61	
CODE CLASS 2				
Piping Welds	22	21		
Component Supports			76	
CODE CLASS 3				
Welded Attachments			1	
Component Supports			40	
TESTING				
Safety-related Snubbers				55

Notes: 1. Includes Preservice examinations (PSI) of replacements.
2. VT examination includes 35 sets (8 bolts per set) of CRD housing bolts for PSI and 35 sets for ISI.

PIPING EXAMINATIONS

Approximately 90 Class 1 and 2 piping welds received volumetric and/or surface examinations. Ultrasonic examination was used for the volumetric method. Dye penetrant or magnetic particle examination was used for the surface method.

RPV EXAMINATIONS

The RPV examinations were performed to comply with ASME Section XI and the augmented requirements of Regulatory Guide 1.150, Revision 1, Appendix A. The examination meets the requirements of Regulatory Guide 1.150 Sections 1, 2, 3, 4, and 5. The recommendations and requirements of Sections 6 and 7 are implemented as described in the following paragraphs:

- Section 6.0 "Recording and Sizing"

  The Supply System complies to Section 6.0 as follows:

  Manual examination equipment and procedures used by GE and Supply System personnel were qualified by performing a calibration on a calibration block of the same material and thickness as the area to be examined.

  The remaining requirements of Section 6.0 are incorporated in the examination procedure.

- Section 7.0 "Reporting of Results"

  The RPV examination reports are maintained at the site and are available for review. The reports contain a description of the equipment used. Full coverage of the examination volume per ASME Section XI could not be obtained on all the RPV welds examined by UT. The limitations on the nozzle examinations were due to the nozzle configuration. The following table details the percentage of examination volume not examined:

Volume not Examined

Item	45°	60°
N3-108-MS	13.2%	9.6%
N3-252 MS	13.2%	9.6%
N3-288 MS	13.2%	9.6%

Visual examination (VT-3) was performed to ensure the two remaining surveillance specimen holders were intact. During examination of the three specimen holders in RF89A, it was discovered that the bottom part of the third specimen holder, a spare, had broken off. It was recovered and the remaining part of the holder assembly was removed at that time. An underwater closed circuit TV examination during the RF90A outage showed the remaining two specimen holders to be intact (no recordable indications). The current plans are to repair or refabricate the spare holder assembly and reinstall it.

SIGNIFICANT INDICATIONS

Significant indications found during ISI examinations are summarized in Table I. All significant indications were evaluated using the Evaluation Review Team Report (ERTR). Seven of the nine ERTRs were for unacceptable linear indications on pipe or fittings detected by the magnetic particle (surface) examination of Class 2 piping welds. Because the Class 2 piping welds use an ISI sampling program (approx. 7.5% of pipe welds) upgraded to the 1983W83 ASME Section XI Code, surface examination was not required/performed on these particular welds during preservice examination (1977S78 Section XI). (Note: Surface examinations were performed on Class 1 welds during PSI so all unacceptable linear indications were removed before the welds were accepted and usually do not turn up in subsequent ISI surface examinations.) These indications are not considered injurious by material specification if less than 5% of nominal wall thickness. They are considered surface imperfections due to rolling or forging laps, seams, scabs, etc., depending on fabrication process. As permitted by ASME Section XI, IWB-3514.2(b) for unacceptable surface conditions, volumetric examination of the indication surface may be used for acceptance. All indications were accepted by full thickness UT examination that determined there was no significant depth to any of them.

One ERTR was due to a spring hanger exceeding the specified cold load setting tolerance (340 lbs. recorded vs. 305 lbs. design max.). At PSI, a setting of 325 lbs. had been observed and evaluated as acceptable, based on the small line size (4"), flexibility and overall balance/lineup of system. The resultant increase of less than 5% at RF90A, after five years of operation, was evaluated and considered acceptable.

The last ERTR category was for rejection of CRD Housing Bolts (cap screws) due to pitting corrosion in the shank of the bolt, based on VT-1 visual examination requirements. Out of 280 bolts examined when 35 CRD Drives were reworked at RF90A, 114 were rejected. One set of eight bolts that exhibited the most pitting corrosion (CRD Drive 34-03) was examined in detail in the metallurgical laboratory. Two of the worst of these eight bolts were sectioned and metallographically examined to quantify the degree of corrosion. The maximum cross sectional area lost to pitting corrosion up to RF90A, after about 5 years in service, was less than 1%. New bolts had been ordered, examined (PSI) and were used to replace all bolts removed from 34 drives. Eight previously installed bolts that had exhibited very minor corrosion (acceptable spares) were installed in the 35th drive (34-47). Bolts labeled acceptable are designated as spares and can be used for future replacements. Pitting corrosion in CRD housing bolts had been first noted during the RF89A outage (< 1% cross sectional area loss on worst-case basis) when drives were reworked. CRD housing bolts will continue to be monitored for pitting corrosion in the same manner in future outages when CRD drives are reworked.

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LIMITED EXAMINATIONS

Full coverage of the examination volume or surface per ASME Section XI was accomplished on all welds examined, except as noted in RPV EXAMINATIONS above. Areas identified as a limited scan in Appendix B have been examined from one side and meet minimum Code requirements.

AUGMENTED EXAMINATIONS

The Supply System performed augmented examinations per the ISI Program Plan Section 5.3, "Mandatory Augmented Inservice Inspection".

o High Energy Lines Penetrating Containment

A dye penetrant or ultrasonic examination was performed on 4 of 65 welds in high energy pipe-break exclusion areas not within ASME Section XI examination boundary. No unacceptable indications were found. This brings the total welds examined in the high energy lines during the First Interval to 37.

o RPV Feedwater Nozzle

The nozzle inner radius, 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. The Supply System has examined 5 of the 6 feedwater nozzles. To date, no unacceptable indications have been found.

o IGSCC (Generic Letter 88-01 compliance)

Approximately 13% of the 54 Category A welds and 7% of the 148 Category B welds were examined at this outage. The examinations were performed by EPRI-qualified examiners. No unacceptable indications were found.

o Core Spray Sparger and Supply Piping

A visual examination of the core spray spargers and their supply piping was performed per the requirements of IE Bulletin 80-13, "Cracking in Core Spray Sparger". No unacceptable indications were observed. The examination was performed using an underwater closed circuit TV (CCTV) system capable of resolving a 0.001 inch diameter wire in-situ. The examiners were certified to Level II VT-1 under the Supply System QA program.

SNUBBER TESTING

An initial sample of 37 snubbers was selected from the WNP-2 general population of 675 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 as required by Technical Specification 4.7.4.e.

Testing of snubbers was performed using portable testing devices (Validators) supplied by the snubber manufacturer. Snubber MS-256, Top, S/N 4444, in the initial sample failed the functional test. The snubber was taken apart to determine the cause for failure. Failure was attributed to exposure to high temperature (approximately 400-500 F). Further field evaluation indicated that extra insulation was added to the main steam lines in the steam tunnel during the R-4 outage to reduce the temperature in the steam tunnel. This snubber was in direct contact with and somewhat encased in an insulation pad on the "D" steam line. This caused a heat buildup and subsequent hardening of the grease in the bearing/ball screw mechanism that led to the snubber almost freezing up. This snubber is the top one of a dual snubber arrangement. The bottom MS-256 snubber (S/N 4447) was removed and tested successfully: the drag value was less than 1%. All other snubbers in the steam tunnel were examined for similar conditions and were found acceptable. Based on a general inspection of other areas, this snubber failure was considered an isolated failure. However, one additional sample of 18 snubbers was randomly selected from the remaining snubber population as required by the Tech Spec. No more failures were encountered and the testing was considered complete in accordance with the requirements of Figure 4.7.2. (Technical Specification 4.7.4).

Snubbers at MS-256 have been deleted per engineering analysis and a rigid strut added where the bottom snubber had been located.

Snubbers MS-145 (S/N 580) and RHR-SB-34 (S/N 13060) met the acceptance criteria, but the drag values were 2-5%. Snubber RHR-SB-30 (S/N 9936) tested at drag values approaching 2%. To assure better service life at these locations, these snubbers were replaced with other snubbers that had tested out at less than 1% drag.

The next testing is required within 18 months (RF91A, or R6, outage in Spring 1991 for WNP-2). No additional testing is required at R6 due to the failure of MS-256 because the snubber at the failed location has been deleted per engineering analysis, a result of the ongoing snubber optimization program.

REPAIRS/REPLACEMENTS

Two significant repair/replacement activities were performed during the RF90A refueling outage: 1) Continuation of the Snubber Optimization Program and 2) Replacement of internals of four main steam isolation valves. A listing and summary of these and all other repairs/replacements accomplished between June 27, 1989 and August 6, 1990 are included in Appendix C.

Snubber Optimization Program

As part of the Supply System's effort to reduce the number of safety-related snubbers at WNP-2, 9 snubbers were replaced with rigid struts and 46 snubbers were deleted. The new replacement struts received PSI examination after installation.

MS ISOLATION VALVE INTERNALS REPLACEMENT

Internals of the remaining four MS isolation valves (MS-V-22B, MS-V-22C, MS-V-28B and MS-V-28C) were replaced. The replacement included the main disc and the stem disc. The bore ID was machined to accommodate the new parts. Weld-repaired and/or machined areas of MS-V-22B, MS-V-22C, MS-V-28B and MS-V-28C valve bores received magnetic particle and VT-3 visual examinations to re-establish the PSI baseline. Because the MS-V-28C valve was in a position where all internal surfaces were accessible at the time of examination, the more complete ISI examination was performed. ISI examination of only one of the eight isolation valves is required each Interval (10 yr. period). Note: At RF89A outage (R4), the first four MS isolation valves (MS-V-22A, MS-V-22D, MS-V-28A and MS-V-28D) were reworked. The internals were replaced and ISI was performed on all four valves.

TABLE I

SIGNIFICANT INDICATIONS

ERTR No.	Ident.No.	Description	Remarks
1-006	16HPCS(1)-7	Linear indication in surface exam.	(1)
1-007	16LPCS(1)-2/ 6LPCS(4)-2	Linear indication in surface exam.	(1)
1-008	6RCIC(1)-99	Linear indication in surface exam.	(1)
1-009	6RCIC(1)-88	Linear indication in surface exam.	(1)
1-010	18RHR(1)A-47	Linear indication in surface exam.	(1)
1-012	16LPCS(1)-23	Linear indication in surface exam.	(1)
1-013	16LPCS(1)-27	Linear indication in surface exam.	(1)
1-011	RCIC-68	Spring hgr. above max. spec. load	(2)
1-014	CRD Housing Bolts	Pitting corrosion.	(3)

Notes

(1) Unacceptable linear indications in MT surface exams were acceptable in full thickness volumetric UT examinations of indication surface areas (no significant depth in any of the seven cases), as permitted in ASME Section XI, IWC-3514 (IWB-3514-2(b)).

(2) Slight increase above PSI load, which had been above specification allowable, but evaluated as acceptable at that time because of overall balance/lineup, flexibility and small line size (4").

(3) Out of 240 bolts removed from 35 CRD drives after 5 years service, 114 were rejected for pitting corrosion. The maximum cross sectional area lost to corrosion, as determined by metallographic examination of the worst-appearing bolts, was less than 1%. New bolts were installed as replacement bolts in 34 drives. Eight previously installed bolts that had exhibited only very minor corrosion (acceptable spares) were installed in the 35th drive.

(4) Reference SIGNIFICANT INDICATION section for additional comments.

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
AUGMT	6RWCU(2)-5	PIPE TO FE	RWCU-303	VOL	19900510
	6RWCU(2)-6	FE TO PIPE	RWCU-303	VOL	19900510
	6RWCU(2)-7	PIPE TO TEE	RWCU-303	VOL	19900510
	4RWCU(2)-8	RED TEE TO FLG	RWCU-303	SUR	19900510
	COUNT =	4			
B-D	N3-108	MS NZ-V @ 108	RPV-101	VOL	19900426
	N3-108-IR	MS NZ-IR @ 108	RPV-101	VOL	19900427
	N3-252	MS NZ-V @ 252	RPV-101	VOL	19900426
	N3-252-IR	MS NZ-IR @ 252	RPV-101	VOL	19900427
	N3-288	MS NZ-V @ 288	RPV-101	VOL	19900426
	N3-288-IR	MS NZ-IR @ 288	RPV-101	VOL	19900427
	N4-270-IR	FW NZ-IR @ 270	RPV-101	VOL	19900502
	N4-270-NB	FW NZ BORE @270	RPV-101	VOL	19900502
	COUNT =	8			
B-F	12RFW(1)BE-9	SE EXT-SE STUB	RFW-102	VOL	19900502
	12RFW(1)BE-9	SE EXT-SE STUB	RFW-102	SUR	19900501
	12RFW(1)BE-10	SE STUB TO SE	RFW-102	VOL	19900502
	12RFW(1)BE-10	SE STUB TO SE	RFW-102	SUR	19900501
	12RFW(1)BE-11	SE TO N4	RFW-102	VOL	19900502
	12RFW(1)BE-11	SE TO N4	RFW-102	SUR	19900501
	COUNT =	6			
B-G-1	RPV STUD 35-1-4A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-4A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-11A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-11A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-18A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-18A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-25A	RPV STUD	RPV-101	VOL	19900516

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OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-G-1	RPV STUD 35-1-25A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-32A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-32A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-39A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-39A	RPV STUD	RPV-101	SUR	19900517
	RPV STUD 35-1-46A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-46A	RPV STUD	RPV-101	SUR	19900517
	RPV STUD 35-1-53A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-53A	RPV STUD	RPV-101	SUR	19900517
	RPV STUD 35-1-60A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-60A	RPV STUD	RPV-101	SUR	19900517
	RPV STUD 35-1-67A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-67A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-74A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-74A	RPV STUD	RPV-101	SUR	19900515
	RPV NUT 36-1-4A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-4A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-11A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-11A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-18A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-18A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-25A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-25A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-32A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-32A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-39A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-39A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-46A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-46A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-53A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-53A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-60A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-60A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-67A	RPV NUT	RPV-101	VOL	19900519

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-G-1	RPV NUT 36-1-67A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-74A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-74A	RPV NUT	RPV-101	SUR	19900519
	COUNT =	44			
B-G-2	6SPARE-1BU	FLANGE BOLTING	RPV-102	VT-1	19900521
	CRD HOUSING 38-59 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 18-55 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 34-55 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 10-51 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 14-51 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 26-51 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900421
	CRD HOUSING 10-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 26-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 34-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 14-43 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 38-43 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 02-39 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 14-39 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 18-39 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 22-35 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 26-35 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 10-27 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 14-27 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 42-27 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 10-23 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 14-23 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 18-23 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 34-23 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 02-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 06-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 26-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 34-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-G-2	CRD HOUSING 38-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 06-15 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 14-11 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 34-11 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 18-03 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 26-03 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 34-03 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 42-03 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	RCIC-V-64-BLT	VALVE BOLTING	RCIC-101	VT-1	19900515
	COUNT =	37			
B-J	4RCIC(13)-4	PIPE TO EL	RCIC-101	VOL	19900503
	4RCIC(13)-5	EL TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-6	PIPE TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-7	PIPE TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-8	PIPE TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-9	PIPE TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-10	PIPE TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-11	PIPE TO PIPE	RCIC-101	VOL	19900503
	26MS(1)C-3	PIPE TO EL	MS-103	VOL	19900430
	26MS(1)C-3	PIPE TO EL	MS-103	SUR	19900430
	26MS(1)C-3LDI	EL SEAM	MS-103	VOL	19900430
	26MS(1)C-3LDI	EL SEAM	MS-103	SUR	19900430
	26MS(1)C-3LDO	EL SEAM	MS-103	VOL	19900430
	26MS(1)C-3LDO	EL SEAM	MS-103	SUR	19900430
	26MS(1)D-3	PIPE TO EL	MS-104	VOL	19900430
	26MS(1)D-3	PIPE TO EL	MS-104	SUR	19900430
	26MS(1)D-3LDI	EL SEAM	MS-104	VOL	19900430
	26MS(1)D-3LDI	EL SEAM	MS-104	SUR	19900430
	26MS(1)D-3LDO	EL SEAM	MS-104	VOL	19900430
	26MS(1)D-3LDO	EL SEAM	MS-104	SUR	19900430
	26MS(1)D-4LUI	EL SEAM	MS-104	VOL	19900430
	26MS(1)D-4LUI	EL SEAM	MS-104	SUR	19900430

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-J	26MS(1)D-4LUO	EL SEAM	MS-104	VOL	19900430
	26MS(1)D-4LUO	EL SEAM	MS-104	SUR	19900430
	26MS(1)D-4	EL TO PIPE	MS-104	VOL	19900430
	26MS(1)D-4	EL TO PIPE	MS-104	SUR	19900430
	26MS(1)D-5	PIPE TO PIPE	MS-104	VOL	19900522
	26MS(1)D-5	PIPR YO PIPE	MS-104	SUR	19900522
	24RFW(1)A-9	VALVE TO PIPE	RFW-101	VOL	19900508
	24RFW(1)A-9	VALVE TO PIPE	RFW-101	SUR	19900508
	24RFW(1)A-12	EL TO PIPE	RFW-101	VOL	19900516
	24RFW(1)A-12	EL TO PIPE	RFW-101	SUR	19900509
	12RFW(1)AB-3	EL TO PIPE	RFW-101	VOL	19900517
	12RFW(1)AB-3	EL TO PIPE	RFW-101	SUR	19900516
	12RFW(1)AA-1	REDUCER TO PIPE	RFW-101	VOL	19900517
	12RFW(1)AA-1	REDUCER TO PIPE	RFW-101	SUR	19900515
	12RFW(1)AA-3	EL TO PIPE	RFW-101	VOL	19900517
	12RFW(1)AA-3	EL TO PIPE	RFW-101	SUR	19900515
	12RFW(1)AA-4	PIPE TO EL	RFW-101	VOL	19900517
	12RFW(1)AA-4	PIPE TO EL	RFW-101	SUR	19900509
	12RFW(1)AA-8	PIPE TO SE EXT	RFW-101	VOL	19900521
	12RFW(1)AA-8	PIPE TO SE EXT	RFW-101	SUR	19900519
	24RFW(1)B-12	EL TO PIPE	RFW-102	VOL	19900516
	24RFW(1)B-12	EL TO PIPE	RFW-102	SUR	19900516
	12RFW(1)BD-4	PIPE TO EL	RFW-102	VOL	19900517
	12RFW(1)BD-4	PIPE TO EL	RFW-102	SUR	19900516
	12RFW(1)BD-7	EL TO PIPE	RFW-102	VOL	19900521
	12RFW(1)BD-7	EL TO PIPE	RFW-102	SUR	19900521
	12RFW(1)BD-8	PIPE TO SE EXT	RFW-102	VOL	19900521
	12RFW(1)BD-8	PIPE TO SE EXT	RFW-102	SUR	19900519
	6RFW(11)-4	PIPE TO EL	RFW-103	VOL	19900518
	6RFW(11)-4	PIPE TO EL	RFW-103	SUR	19900517
	6RFW(11)-5	EL TO PIPE	RFW-103	VOL	19900518
	6RFW(11)-5	EL TO PIPE	RFW-103	SUR	19900517
	6RFW(11)-6	PIPE TO EL	RFW-103	VOL	19900518
	6RFW(11)-6	PIPE TO EL	RFW-103	SUR	19900517

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	IST DRAWING	METHOD	EXAM. DATE
B-J	6RFW(11)-7	EL TO PIPE	RFW-103	VOL	19900518
	6RFW(11)-7	EL TO PIPE	RFW-103	SUR	19900517
	6RFW(11)-8	PIPE TO TEE	RFW-103	VOL	19900518
	6RFW(11)-8	PIPE TO TEE	RFW-103	SUR	19900517
	6RFW(11)-9	TEE TO PIPE	RFW-103	VOL	19900518
	6RFW(11)-9	TEE TO PIPE	RFW-103	SUR	19900517
	6RFW(11)-10	PIPE TO REDUCER	RFW-103	VOL	19900518
	6RFW(11)-10	PIPE TO REDUCER	RFW-103	SUR	19900517
	4RFW(11)B-1	REDUCER TO PIPE	RFW-103	VOL	19900518
	4RFW(11)B-1	REDUCER TO PIPE	RFW-103	SUR	19900517
	4RFW(11)B-1A	PIPE TO PIPE	RFW-103	VOL	19900528
	4RFW(11)B-1A	PIPE TO PIPE	RFW-103	SUR	19900517
	4RFW(11)B-2	PIPE TO EL	RFW-103	VOL	19900518
	4RFW(11)B-2	PIPE TO EL	RFW-103	SUR	19900517
	4RFW(11)B-3	EL TO PIPE	RFW-103	VOL	19900518
	4RFW(11)B-3	EL TO PIPE	RFW-103	SUR	19900517
	4RFW(11)B-4	PIPE TO EL	RFW-103	VOL	19900518
	4RFW(11)B-4	PIPE TO EL	RFW-103	SUR	19900517
	4RFW(11)B-5	EL TO SLEEVE	RFW-103	VOL	19900518
	4RFW(11)B-5	EL TO SLEEVE	RFW-103	SUR	19900517
	16RRC(1)A-1/12RRC(1)-N2D	PIPE TO SWL	RRC-101	VOL	19900503
	16RRC(1)A-1/12RRC(1)-N2D	PIPE TO SWL	RRC-101	SUR	19900501
	16RRC(1)A-1/12RRC(1)-N2E	PIPE TO SWL	RRC-101	VOL	19900503
	16RRC(1)A-1/12RRC(1)-N2E	PIPE TO SWL	RRC-101	SUR	19900501
	16RRC(1)A-2	PIPE TO CAP	RRC-101	VOL	19900503
	16RRC(1)A-3	CROSS TO PIPE	RRC-101	VOL	19900503
	16RRC(1)A-3/12RRC(1)-N2B	PIPE TO SWL	RRC-101	VOL	19900503
	16RRC(1)A-3/12RRC(1)-N2B	PIPE TO SWL	RRC-101	SUR	19900502
	16RRC(1)A-3/12RRC(1)-N2A	PIPE TO SWL	RRC-101	VOL	19900503
	16RRC(1)A-3/12RRC(1)-N2A	PIPE TO SWL	RRC-101	SUR	19900501
	16RRC(1)A-4	PIPE TO CAP	RRC-101	VOL	19900503
	12RRC(1)-N2A-1	SWL TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2A-1	SWL TO PIPE	RRC-101	SUR	19900501
	12RRC(1)-N2A-1LD	PIPE SEAM	RRC-101	VOL	19900501

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-J	12RRC(1)-N2A-1LD	PIPE SEAM	RRC-101	SUR	19900501
	12RRC(1)-N2A-3	EL TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2B-3	EL TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2C-1	REDUCER TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2C-1	REDUCER TO PIPE	RRC-101	SUR	19900502
	12RRC(1)-N2C-1LD	PIPE SEAM	RRC-101	VOL	19900505
	12RRC(1)-N2C-1LD	PIPE SEAM	RRC-101	SUR	19900502
	12RRC(1)-N2C-1A	PIPE TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2C-1ALD	PIPE SEAM	RRC-101	VOL	19900505
	12RRC(1)-N2C-3	EL TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2D-1	SWL TO PIPE	RRC-101	VOL	19900505
	12RRC(1)-N2D-1	SWL TO PIPE	RRC-101	SUR	19900501
	12RRC(1)-N2D-1LD	PIPE SEAM	RRC-101	VOL	19900505
	12RRC(1)-N2D-1LD	PIPE SEAM	RRC-101	SUR	19900501
	20RRC(6)-2LU	PIPE SEAM	RRC-105	VOL	19900504
	20RRC(6)-2LU	PIPE SEAM	RRC-105	SUR	19900504
	20RRC(6)-2	PIPE TO EL	RRC-105	VOL	19900504
	20RRC(6)-2	PIPE TO EL	RRC-105	SUR	19900504
	20RRC(6)-2LDI	EL SEAM	RRC-105	VOL	19900504
	20RRC(6)-2LDI	EL SEAM	RRC-105	SUR	19900504
	20RRC(6)-2LDO	EL SEAM	RRC-105	VOL	19900504
	20RRC(6)-2LDO	EL SEAM	RRC-105	SUR	19900504
	COUNT =	112			
B-K-1	MS-HC-1(W)	4 WELDED LUGS	MS-103	SUR	19900521
	MS-HD-1(W)	4 WELDED LUGS	MS-104	SUR	19900521
	RWCU-1C-4PS(W)	8 WELDED LUGS	RWCU-101	SUR	19900509
	RWCU-1C-3(W)	8 WELDED LUGS	RWCU-101	SUR	19900507
	COUNT =	4			
B-M-2	LPCS-V-6-BDY	VALVE BODY	LPCS-101	VT-3	19900514
	MS-V-28C-BDY	VALVE BODY	MS-103	VT-3	19900508

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
	RRC-V-60A-BDY	VALVE BODY	RRC-101	VT-3	19900608
	COUNT =	3			
B-N-1	RPV INTERIOR	RPV INTERIOR*	RPV-101	VT-3	19900504
	COUNT =	1			
B-P	RPV-PB-101(L)	LK PRES BNDRY	RPV-101	VT-2	19900804
	RPV-PB-102(L)	LK PRES BNDRY	RPV-102	VT-2	19900804
	RCIC-PB-101(L)	LK PRES BNDRY	RCIC-101	VT-2	19900804
	RCIC-PB-102(L)	LK PRES BNDRY	RCIC-102	VT-2	19900804
	HPCS-PB-101(L)	LK PRES BNDRY	HPCS-101	VT-2	19900804
	LPCS-PB-101(L)	LK PRES BNDRY	LPCS-101	VT-2	19900804
	RHR-PB-101(L)	LK PRES BNDRY	RHR-101	VT-2	19900804
	RHR-PB-102(L)	LK PRES BNDRY	RHR-102	VT-2	19900804
	RHR-PB-103(L)	LK PRES BNDRY	RHR-103	VT-2	19900804
	RHR-PB-104(L)	LK PRES BNDRY	RHR-104	VT-2	19900804
	RHR-PB-105(L)	LK PRES BNDRY	RHR-105	VT-2	19900804
	RHR-PB-106(L)	LK PRES BNDRY	RHR-106	VT-2	19900804
	MS-PB-101(L)	LK PRES BNDRY	MS-101	VT-2	19900804
	MS-PB-102(L)	LK PRES BNDRY	MS-102	VT-2	19900804
	MS-PB-103(L)	LK PRES BNDRY	MS-103	VT-2	19900804
	MS-PB-104(L)	LK PRES BNDRY	MS-104	VT-2	19900804
	MS-PB-105(L)	LK PRES BNDRY	MS-105	VT-2	19900804
	MS-PB-106(L)	LK PRES BNDRY	MS-106	VT-2	19900804
	RFW-PB-101(L)	LK PRES BNDRY	RFW-101	VT-2	19900804
	RFW-PB-102(L)	LK PRES BNDRY	RFW-102	VT-2	19900804
	RFW-PB-103(L)	LK PRES BNDRY	RFW-103	VT-2	19900804
	RRC-PB-101(L)	LK PRES BNDRY	RRC-101	VT-2	19900804
	RRC-PB-102(L)	LK PRES BNDRY	RRC-102	VT-2	19860607
	RRC-PB-103(L)	LK PRES BNDRY	RRC-103	VT-2	19900804
	RRC-PB-104(L)	LK PRES BNDRY	RRC-104	VT-2	19900804
	RRC-PB-105(L)	LK PRES BNDRY	RRC-105	VT-2	19900804

* Limited to two surv. specimen holders and RPV top head steam dryer holddown lugs (4).

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-P	RRC-PB-106(L)	LK PRES BNDRY	RRC-106	VT-2	19900804
	RRC-PB-107(L)	LK PRES BNDRY	RRC-107	VT-2	19900804
	RRC-PB-108(L)	LK PRES BNDRY	RRC-108	VT-2	19900804
	RRC-PB-109(L)	LK PRES BNDRY	RRC-109	VT-2	19900804
	RRC-PB-110(L)	LK PRES BNDRY	RRC-110	VT-2	19900804
	RRC-PB-111(L)	LK PRES BNDRY	RRC-111	VT-2	19900804
	RWCU-PB-101(L)	LK PRES BNDRY	RWCU-101	VT-2	19900804
	SLC-PB-101(L)	LK PRESS BNDRY	SLC-101	VT-2	19900804
	COUNT =	34			
C-F-2	6RCIC(1)-82	PIPE TO PIPE	RCIC-205	VOL	19900427
	6RCIC(1)-82	PIPE TO PIPE	RCIC-205	SUR	19900428
	6RCIC(1)-88	PIPE TO ELL	RCIC-205	VOL	19900430
	6RCIC(1)-88	PIPE TO ELL	RCIC-205	SUR	19900430
	6RCIC(1)-99	ELL TO PIPE	RCIC-205	VOL	19900430
	6RCIC(1)-99	ELL TO PIPE	RCIC-205	SUR	19900430
	6RCIC(1)-105	PIPE TO ELBOW	RCIC-205	VOL	19900428
	6RCIC(1)-105	PIPE TO ELBOW	RCIC-205	SUR	19900428
	6RCIC(22)-10	ELL TO TEE	RCIC-205	VOL	19900428
	6RCIC(22)-10	ELL TO TEE	RCIC-205	SUR	19900428
	16HPCS(1)-7	ELL TO PIPE	HPCS-202	VOL	19900428
	16HPCS(1)-7	ELL TO PIPE	HPCS-202	SUR	19900427
	16HPCS(1)-27	PIPE TO EL	HPCS-202	VOL	19900512
	16HPCS(1)-27	PIPE TO ELL	HPCS-202	SUR	19900512
	16LPCS(1)-2/6LPCS(4)-2	BRANCH CONN	LPCS-202	SUR	19900430
	16LPCS(1)-8	ELL TO PIPE	LPCS-202	VOL	19900512
	16LPCS(1)-8	ELL TO PIPE	LPCS-202	SUR	19900511
	12LPCS(3)-5	VLV TO PIPE	LPCS-202	VOL	19900512
	12LPCS(3)-5	VLV TO PIPE	LPCS-202	SUR	19900511
	12LPCS(3)-6	PIPE TO ELL	LPCS-202	VOL	19900512
	12LPCS(3)-6	PIPE TO ELL	LPCS-202	SUR	19900511
	16LPCS(1)-23	PIPE TO PIPE	LPCS-202	VOL	19900512
	16LPCS(1)-23	PIPE TO PIPE	LPCS-202	SUR	19900512

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
C-F-2	16LPCS(1)-27	ELL TO PIPE	LPCS-202	VOL	19900520
	16LPCS(1)-27	ELL TO PIPE	LPCS-202	SUR	19900519
	20RHR(1)A-2	PIPE TO NOZZLE	RHR-201	VOL	19900510
	20RHR(1)A-2	PIPE TO NOZZLE	RHR-201	SUR	19900510
	18RHR(11)A-1	TEE TO PIPE	RHR-201	VOL	19900508
	18RHR(11)A-1	TEE TO PIPE	RHR-201	SUR	19900507
	18RHR(11)A-14	PIPE TO TEF	RHR-201	VOL	19900508
	18RHR(11)A-14	PIPE TO TEE	RHR-201	SUR	19900507
	20RHR(1)A-6	PIPE TO REDUCER	RHR-201	VOL	19900508
	20RHR(1)A-6	PIPE TO REDUCER	RHR-201	SUR	19900507
	18RHR(1)A-47	PIPE TO TEE	RHR-201	VOL	19900508
	18RHR(1)A-47	PIPE TO TEE	RHR-201	SUR	19900507
	18RHR(1)A-54	PIPE TO TEE	RHR-201	VOL	19900508
	18RHR(1)A-54	PIPE TO TEE	RHR-201	SUR	19900507
	14RHR(1)A-13	EL TO PIPE	RHR-201	VOL	19900516
	14RHR(1)A-13	EL TO PIPE	RHR-201	SUR	19900516
	COUNT =	39			
D-C	FPC-908N(W)	WELDED ATTACH	FPC-301	VT-3	19900417
	COUNT =	1			
INF	RCIC-72	SPRING	RCIC-101	VT3H	19900503
	RCIC-1C-16	PSA-3 SNUBBER	RCIC-101	VT3H	19900503
	RCIC-1C-7	PSA-3 SNUBBER	RCIC-101	VT3H	19900503
	RCIC-68	SPRING	RCIC-101	VT3H	19900503
	RCIC-1C-8	PSA-3 SNUBBER	RCIC-101	VT3H	19900503
	RCIC-127	SPRING	RCIC-102	VT3H	19900423
	RCIC-936N	PSA-1 SN(2)	RCIC-102	VT3H	19900423
	RCIC-935N	PSA-1 SNUBBER	RCIC-102	VT3H	19900423
	RCIC-941N	SPRING	RCIC-102	VT3H	19900423
	RCIC-934N	PSA-3 SNUBBFR	RCIC-102	VT3H	19900423
	RCIC-933N	PSA-3 SNUBBER	RCIC-102	VT3H	19900423

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
IWF	RCIC-932N	PSA-1 SN(2)	RCIC-102	VT3H	19900423
	RCIC-128	PSA-3 SNUBBER	RCIC-102	VT3H	19900423
	RCIC-129	SPRING	RCIC-102	VT3H	19900423
	RCIC-955N	BOX	RCIC-205	VT3H	19900427
	RCIC-954N	BOX	RCIC-205	VT3H	19900427
	RCIC-22	BOX	RCIC-205	VT3H	19900427
	RCIC-952N	BOX	RCIC-205	VT3H	19900427
	RCIC-29	ANCHOR	RCIC-205	VT3H	19900427
	RCIC-86	SPRING	RCIC-205	VT3H	19900428
	RCIC-88	BOX	RCIC-205	VT3H	19900428
	RCIC-90	STRUT	RCIC-205	VT3H	19900428
	RCIC-91	ANCHOR	RCIC-205	VT3H	19900428
	RCIC-93	BOX	RCIC-205	VT3H	19900428
	RCIC-95	BOX	RCIC-205	VT3H	19900428
	RCIC-97	SPRING	RCIC-205	VT3H	19900428
	RCIC-98	STRUT	RCIC-205	VT3H	19900428
	RCIC-99	STRUT	RCIC-205	VT3H	19900428
	RCIC-100	PSA-1/2 SN(2)	RCIC-205	VT3H	19900428
	HPCS-1	SPRING	HPCS-202	VT3H	19900417
	HPCS-23	SPRING	HPCS-202	VT3H	19900417
	HPCS-21	RIGID	HPCS-202	VT3H	19900417
	HPCS-20	RIGID	HPCS-202	VT3H	19900417
	HPCS-903N	STRUT	HPCS-202	VT3H	19900423
	HPCS-24	STRUT	HPCS-202	VT3H	19900423
	HPCS-25	SPRING	HPCS-202	VT3H	19900420
	HPCS-26	STRUT	HPCS-202	VT3H	19900420
	HPCS-27	STRUT	HPCS-202	VT3H	19900420
	HPCS-28	BOX	HPCS-202	VT3H	19900420
	HPCS-917N	STRUT	HPCS-202	VT3H	19900420
	HPCS-915N	STRUT	HPCS-202	VT3H	19900420
	HPCS-909N	STRUT	HPCS-202	VT3H	19900420
	LPCS-38	BOX	LPCS-202	VT3H	19900417
	LPCS-39	BOX	LPCS-202	VT3H	19900417
	LPCS-11	SPRING	LPCS-202	VT3H	19900417

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
IWF	LPCS-12	BOX	LPCS-202	VT3H	19900417
	LPCS-14	ANCHOR	LPCS-202	VT3H	19900417
	LPCS-17	BOX	LPCS-202	VT3H	19900417
	LPCS-20	STRUT	LPCS-202	VT3H	19900418
	LPCS-41	STRUT	LPCS-202	VT3H	19900418
	LPCS-42	BOX	LPCS-202	VT3H	19900418
	LPCS-22	RIGID	LPCS-202	VT3H	19900418
	LPCS-23	SPRING	LPCS-202	VT3H	19900418
	LPCS-24	BOX	LPCS-202	VT3H	19900418
	LPCS-25	SPRING	LPCS-202	VT3H	19900418
	LPCS-903N	ANCHOR	LPCS-202	VT3H	19900418
	RHR-601	STRUT	RHR-201	VT3H	19900430
	RHR-600	STRUT	RHR-201	VT3H	19900430
	RHR-598	SPRING	RHR-201	VT3H	19900430
	RHR-237	STRUT	RHR-201	VT3H	19900430
	RHR-234	BOX	RHR-201	VT3H	19900430
	RHR-1004N	STRUT	RHR-201	VT3H	19900430
	RHR-235	PSA-10 SNUBBER	RHR-201	VT3H	19900430
	RHR-350	SPRING	RHR-201	VT3H	19900430
	RHR-963N	ANCHOR	RHR-201	VT3H	19900430
	RHR-1019N	STRUT	RHR-201	VT3H	19900430
	RHR-240	BOX	RHR-201	VT3H	19900516
	RHR-964N	ANCHOR	RHR-201	VT3H	19900516
	MS-HC-1	SPRING (2)	MS-103	VT3H	19900521
	MS-SC-6	PSA-35 SNUBBER	MS-103	VT3H	19900521
	MS-SC-7	PSA-35 SNUBBER	MS-103	VT3H	19900521
	MS-SC-5	PSA-35 SNUBBER	MS-103	VT3H	19900502
	MS-SC-8	PSA-35 SNUBBER	MS-103	VT3H	19900502
	MS-HC-2	SPRING	MS-103	VT3H	19900521
	MS-SD-6	PSA-35 SNUBBER	MS-104	VT3H	19900502
	MS-SD-7	PSA-35 SNUBBER	MS-104	VT3H	19900521
	MS-SD-5	PSA-35 SNUBBER	MS-104	VT3H	19900502
	MS-SD-9	PSA-35 SNUBBER	MS-104	VT3H	19900507
	MS-260	SPRING	MS-105	VT3H	19900502

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
IWF	MS-1C-1PS	STRUT	MS-105	VT3H	19900515
	MS-261	SPRING	MS-105	VT3H	19900502
	MS-155	STRUT	MS-202	VT3H	19900425
	MS-178	SPRING	MS-202	VT3H	19900425
	MS-179	STRUT(2)	MS-202	VT3H	19900425
	MS-152	SPRING (2)	MS-202	VT3H	19900425
	MS-151	PSA-3 SN(2)	MS-202	VT3H	19900525
	MS-150	STRUT	MS-202	VT3H	19900525
	MS-149	SPRING (2)	MS-202	VT3H	19900425
	MS-146	SPRING (2)	MS-202	VT3H	19900425
	MS-144	SPRING	MS-202	VT3H	19900430
	MS-142	SPRING	MS-202	VT3H	19900430
	MS-31	STRUT	MS-203	VT3H	19900425
	MS-30	SPRING (2)	MS-203	VT3H	19900425
	MS-49	SPRING	MS-203	VT3H	19900425
	MS-28	SPRING	MS-203	VT3H	19900430
	MS-141	SPRING	MS-203	VT3H	19900430
	MS-24	SPRING	MS-203	VT3H	19900430
	MS-55	SPRING (2)	MS-204	VT3H	19900512
	RFW-152	SPRING	RFW-101	VT3H	19900514
	RFW-151	PSA-35 SNUBBER	RFW-101	VT3H	19900514
	RFW-929N	PSA-10 SNUBBER	RFW-101	VT3H	19900514
	RFW-159	SPRING	RFW-101	VT3H	19900522
	RFW-182	SPRING	RFW-102	VT3H	19900514
	RFW-184	SPRING	RFW-102	VT3H	19900522
	RFW-173	SPRING	RFW-102	VT3H	19900514
	RFW-171	PSA-10 SNUBBER	RFW-102	VT3H	19900514
	RFW-915N	PSA-10 SNUBBER	RFW-102	VT3H	19900514
	RFW-183	SPRING	RFW-102	VT3H	19900522
	RFW-177	SPRING	RFW-103	VT3H	19900518
	RFW-181	SPRING	RFW-103	VT3H	19900517
	RRC-HA-9	SPRING	RRC-101	VT3H	19900501
	RRC-SA-13	PSA-35 SNUBBER	RRC-101	VT3H	19900501
	RRC-SA-11	PSA-35 SNUBBER	RRC-101	VT3H	19900501

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
IWF	RRC-HA-8	SPRING	RRC-101	VT3H	19900501
	RRC-SA-12	PSA-35 SNUBBER	RRC-101	VT3H	19900501
	RRC-SA-14	PSA-35 SNUBBER	RRC-101	VT3H	19900501
	RRC-1	SPRING	RRC-105	VT3H	19900507
	RHR-SA-50	PSA-35 SNUBBER	RRC-105	VT3H	19900507
	RWCU-1C-4PS	STRUT	RWCU-101	VT3H	19900509
	RWCU-1C-3	PSA-3 SN(2)	RWCU-101	VT3H	19900507
	FPC-170	BOX	FPC-201	VT3H	19900417
	FPC-172	BOX	FPC-201	VT3H	19900417
	FPC-237	BOX	FPC-201	VT3H	19900417
	FPC-238	BOX	FPC-201	VT3H	19900417
	FPC-239	BOX	FPC-201	VT3H	19900417
	FPC-57	BOX	FPC-301	VT3H	19900426
	FPC-58	BOX	FPC-301	VT3H	19900512
	FPC-919N	RIGID	FPC-301	VT3H	19900512
	FPC-59	BOX	FPC-301	VT3H	19900512
	FPC-60	BOX	FPC-301	VT3H	19900418
	FPC-61	SPRING	FPC-301	VT3H	19900418
	FPC-62	BOX	FPC-301	VT3H	19900420
	FPC-909N	RIGID	FPC-301	VT3H	19900417
	FPC-908N	PSA-1 SN(2)	FPC-301	VT3H	19900425
	FPC-41	SPRING	FPC-301	VT3H	19900417
	FPC-40	STRUT	FPC-301	VT3H	19900417
	FPC-39	SPRING	FPC-301	VT3H	19900417
	FPC-208	BOX	FPC-302	VT3H	19900420
	FPC-193	SPRING	FPC-303	VT3H	19900420
	FPC-207	BOX	FPC-303	VT3H	19900420
	FPC-192	BOX	FPC-303	VT3H	19900420
	FPC-191	BOX	FPC-303	VT3H	19900410
	FPC-188	BOX	FPC-303	VT3H	19900420
	FPC-189	SPRING	FPC-303	VT3H	19900420
	FPC-102	RIGID	FPC-304	VT3H	19900417
	FPC-103	RIGID	FPC-304	VT3H	19900417
	FPC-104	RIGID	FPC-304	VT3H	19900417

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
IWF	FPC-105	RIGID	FPC-304	VT3H	19900417
	FPC-106	RIGID	FPC-304	VT3H	19900417
	FPC-107	RIGID	FPC-304	VT3H	19900417
	FPC-108	RIGID	FPC-304	VT3H	19900417
	FPC-109	RIGID	FPC-304	VT3H	19900417
	FPC-110	RIGID	FPC-304	VT3H	19900417
	FPC-111	BOX	FPC-304	VT3H	19900417
	FPC-113	BOX	FPC-304	VT3H	19900417
	FPC-92	RIGID	FPC-305	VT3H	19900417
	FPC-91	STRUT	FPC-305	VT3H	19900417
	FPC-77	RIGID	FPC-305	VT3H	19900417
	FPC-76	BOX	FPC-305	VT3H	19900417
	FPC-75	RIGID	FPC-305	VT3H	19900417
	FPC-74	RIGID	FPC-305	VT3H	19900417
	FPC-73	BOX	FPC-305	VT3H	19900417
	FPC-72	RIGID	FPC-305	VT3H	19900417
	FPC-71	BOX	FPC-305	VT3H	19900417
	FPC-68	RIGID	FPC-305	VT3H	19900417
	SLC-4453-24	RIGID	SLC-101	VT3H	19900417
	SLC-4453-25A	RIGID	SLC-101	VT3H	19900417
	SLC-4453-26B	RIGID	SLC-101	VT3H	19900417
	SLC-4453-214	RIGID	SLC-101	VT3H	19900417
	SLC-4453-215	RIGID	SLC-101	VT3H	19900417
	SLC-4453-29	RIGID	SLC-101	VT3H	19900417
	SLC-4453-210	RIGID	SLC-101	VT3H	19900417
	SLC-4453-211	RIGID	SLC-101	VT3H	19900417
	SLC-4453-212	RIGID	SLC-101	VT3H	19900417
	SLC-4453-213	RIGID	SLC-101	VT3H	19900417
	SLC-4453-31	RIGID	SLC-101	VT3H	19900417
	SLC-4453-32	RIGID	SLC-101	VT3H	19900417
	COUNT =	177			
N/A	INCORE DRY TUBES	INCORE DRY TUBE	RPV-101	VT-1	19900503

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	IST DRAWING	METHOD	EXAM. DATE
N/A	CORE SPRAY SPARGERS	CORE SPRAY SPG	RPV-101	VT-1	19900521
	STEAM DRYER	STEAM DRYER	RPV-101	VT-1	19900512
	24CSP(1)-5	ELL TO PENETRA	MISC	VOL	19900518

COUNT = 4

TOTAL COUNT = 474

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	19900424	ACC		NO
DE-23					
PSA-3 SNUBBER	2381	19900423	ACC		NO
FPC-227					
PSA-3 SNUBBER	2365	19900426	ACC		NO
HPCS-910N SOUTH					
PSA-3 SN(2)	2591	19900426	ACC		NO
HPCS-912N					
PSA-3 SNUBBER	2790	19900426	ACC		NO
HPCS-924N WEST					
PSA-3 SN(2)	3883	19900423	ACC		NO
HY-4236-110					
PSA-1/4 SNUBBER	28430	19900426	ACC		NO
MD-74					
PSA-1 SNUBBER	360	19900425	ACC		NO
MS-135					
PSA-35 SNUBBER	7033	19900428	ACC		NO
MS-145					
PSA-10 SNUBBER	14556*	19900430	ACC		NO
MS-145					
PSA-10 SNUBBER	580	19900425	ACC	14556	NO

* This snubber was not part of the sample population. It was tested prior to being installed as a replacement. Snubber Test Population = 58-3 = 55.

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-147	NORTH					
PSA-35 SN(2)		6543	19900425	ACC		NO
MS-256	TOP					
PSA-3 SN(2)		4444	19900423	REJ	DELETED	NO
MS-2619-13						
PSA-1 SNUBBER		625	19900427	ACC		NO
MS-96	TOP					
PSA-10 SN(2)		772	19900425	ACC		NO
MS-96	BOTTOM					
PSA-10 SN(2)		286	19900425	ACC		NO
MS-998N	NORTH					
PSA-10 SN(2)		710	19900425	ACC		NO
MS-SA-7						
PSA-35 SNUBBER		4209	19900426	ACC	STRUT	NO
MS-SB-1						
PSA-100 SNUBBER		604	19900427	ACC		NO
MS-SD-4						
PSA-35 SNUBBER		4148	19900426	ACC		NO
MSLC-2821-12	BOTTOM					
PSA-1/4 SN(2)		376	19900423	ACC		NO
MSRV-1B-3						
PSA-10 SNUBBER		4864	19900427	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-1C-1					
PSA-10 SNUBBER	4870	19900427	ACC		NO
MSRV-2B-1					
PSA-10 SNUBBER	13063	19900427	ACC		NO
MSRV-2B-6					
PSA-10 SNUBBER	9910	19900427	ACC		NO
MSRV-2D-1					
PSA-10 SNUBBER	287	19900427	ACC		NO
MSRV-3B-4					
PSA-10 SNUBBER	274	19900427	ACC		NO
MSRV-4C-8					
PSA-35 SNUBBER	10736	19900426	ACC		NO
MSRV-5B-2					
PSA-35 SNUBBER	6205	19900426	ACC		NO
MSRV-5B-4					
PSA-10 SNUBBER	13054	19900427	ACC		NO
RCIC-1490-13					
PSA-1/2 SNUBBER	2523	19900423	ACC		NO
RCIC-1C-1					
PSA-1 SNUBBER	359	19900427	ACC		NO
RCIC-2562-25					
PSA-1/2 SNUBBER	2462	19900426	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
RFW-154 SOUTH					
PSA-10 SN(2)	9958	19900427	ACC	DELETED	NO
RHR-206					
PSA-1 SNUBBER	610	19900423	ACC		NO
RHR-277					
PSA-3 SNUBBER	509	19900424	ACC		NO
RHR-383					
PSA-35 SNUBBER	70568 **	19900427	ACC	10568	NO
RHR-387					
PSA-10 SNUBBER	11867	19900427	ACC		NO
RHR-419 EAST					
PSA-3 SN(2)	4432	19900426	ACC		NO
RHR-454					
PSA-1/2 SNUBBER	2118	19900423	ACC		NO
RHR-485					
PSA-10 SNUBBER	11856	19900427	ACC		NO
RHR-492 SOUTH					
PSA-3 SN(2)	3950	19900426	ACC		NO
RHR-502					
PSA-35 SNUBBER	6178	19900427	ACC		NO
RHR-59					
PSA-10 SNUBBER	9942	19900424	ACC		NO

** S/N corrected from 70568 to 10568

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-913N						
PSA-3 SNUBBER		4430	19900423	ACC		NO
RHR-948N	BOTTOM					
PSA-3 SN(2)		2580	19900423	ACC		NO
RHR-954N	EAST					
PSA-1 SN(2)		126	19900423	ACC		NO
RHR-959N	SOUTH/WE					
PSA-3 SN(2)		2360	19900426	ACC		NO
RHR-974N						
PSA-3 SNUBBER		4457	19900423	ACC		NO
RHR-SB-30						
PSA-10 SNUBBER		14555 *	19900408	ACC		NO
RHR-SB-30						
PSA-10 SNUBBER		9936	19900424	ACC	14555	NO
RHR-SB-34	TOP					
PSA-10 SN(2)		9931 *	19900427	ACC		NO
RHR-SB-34	TOP					
PSA-10 SN(2)		13060	19900424	ACC	9931	NO
RRC-1C-900N	BOTTOM					
PSA-1 SN(2)		617	19900427	ACC		NO
RRC-SA-17						
PSA-35 SNUBBER		4217	19900427	ACC		NO

* These snubbers were not part of the sample population. They were tested prior to being installed as replacements. Snubber test population = 58 - 3 = 55.

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-SB-25					
PSA-35 SNUBBER	4158	19900426	ACC		NO
RWCU-1C-3 WEST					
PSA-3 SN(2)	3938	19900426	ACC		NO
SW-29 NORTH EA					
PSA-10 SN(4)	4869	19900426	ACC		NO

TOTAL COUNT = 58

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, Richland, WA 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	8
LPCS-V-22B	Velan Engineering Co.	0057	N/A	N/A
MS-V-22B	Rockwell Mfg. Co.	JT-37	N/A	69
MS-V-22C	Rockwell Mfg. Co.	JT-54	N/A	70
MS-V-28B	Rockwell Mfg. Co.	JT-98	N/A	96
MS-V-28C	Rockwell Mfg. Co.	JU-17	N/A	77
RRC-V-60A	Hammel Dahl Valve Co.	71/200 S/001A	N/A	N/A
Lg Bore Pipe	Bechtel	(1)	N/A	N/A
Note: (1) The piping examined is included in Pages 5-19.				

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 6/27/89 to 8/7/90 9. Inspection Interval from 12/31/84 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 56% of the examinations required for this inspection interval have been completed. Ref. pgs. 5-19 for exam details.

11. Abstract of Conditions Noted. Ref. pgs. 3 and 4.

12. Abstract of Corrective Measures Recommended and Taken Ref. pgs. 3 and 4.

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 10-26 19 90 Signed WPPSS Owner By J W Baker

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

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 Arkwright Mut. Ins. Co. of Norwood, Mass. * have inspected the components described in this Owners' Data Report during the period 6/27/89 to 8/7/90, 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.

* Factory Mutual System

Date 10/24 19 90

Dan Hoggatt Commissions 9556 W

Inspector's Signature National Board, State, Province and No.

FORM NIS-1

1. Owner: Washington Public Power Supply System
   3000 George Washington Way
   Richland, Washington 99352
2. Plant: WNP-2
   Hanford Reservation
   Benton County, Washington
3. Plant Unit: WNP-2
4. Owner Certificate of Authorization: N/A
5. Commercial Service Date: 12/13/1984
6. National Board Number for Unit: N/A

11. Abstract of Conditions Noted:

No unacceptable indications were found using dye penetrant, magnetic particle, and ultrasonic examination methods except for MT exams of seven butt welds where surface imperfections due to the fabrication process(es) showed up as linear indications.

Code category B-P leakage test found no leaks to be present.

RPV interior (B-N-1) visual examination found the two remaining surveillance specimen holders to be intact.

One snubber failed testing.

A number of CRD bolts (cap screws) were found with pitting corrosion in the visual surface examination (VT-1) and rejected (114 out of 240 in 35 drives reworked).

12. Abstract of Corrective Measures Recommended and Taken:

The seven welds that failed MT surface exams were accepted by subsequent full thickness UT examinations of MT indication areas that determined there was no significant depth to any of them (surface exams acceptable).

The snubber (MS-256 Top) failed because of hardening of grease in the internal mechanism after long time exposure to 300-400 F. High snubber temperature was due to resultant heat buildup when encapsulated in an insulation pad on the steam line. Independent of this problem, the failed snubber was deleted and the lower snubber was replaced by a rigid strut as part of an ongoing snubber optimization program at WNP-2. No similar conditions were uncovered for any of the other snubbers examined.

FORM NIS-1

1. Owner: Washington Public Power Supply System
   3000 George Washington Way
   Richland, Washington 99352
2. Plant: WNP-2
   Hanford Reservation
   Benton County, Washington
3. Plant Unit: WNP-2
4. Owner Certificate of Authorization: N/A
5. Commercial Service Date: 12/13/1984
6. National Board Number for Unit: N/A

12. Abstract of Corrective Measures Recommended and Taken (cont):

One set of cap screws (8 per set)) that had the worst-appearing pitting corrosion were examined in detail. Two of the worst-appearing screws in this set were sectioned and metallographically examined to determine that less than 1% of the cross sectional area of the bolts was lost in five years of operation. Although the evaluation showed the rejected bolts would have been acceptable for continued operation, all new bolts were installed in 34 drives. Eight bolts previously removed from another drive and accepted by visual examination were installed in the 35th drive.

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	N3-108	MS NZ-V @ 108	B3.90	VOL	RPV-101
	N3-108-IR	MS NZ-IR @ 108	B3.100	VOL	RPV-101
	N3-252	MS NZ-V @ 252	B3.90	VOL	RPV-101
	N3-252-IR	MS NZ-IR @ 252	B3.100	VOL	RPV-101
	N3-288	MS NZ-V @ 288	B3.90	VOL	RPV-101
	N3-288-IR	MS NZ-IR @ 288	B3.100	VOL	RPV-101
	N4-270-IR	FW NZ-IR @ 270	B3.100	VOL	RPV-101
	N4-270-NB	FW NZ BORE @270	B3.100	VOL	RPV-101
B-F	12RFW(1)BE-9	SE EXT-SE STUB	B5.10	VOL	RFW-102
	12RFW(1)BE-9	SE EXT-SE STUB	B5.10	SUR	RFW-102
	12RFW(1)BE-10	SE STUB TO SE	B5.10	VOL	RFW-102
	12RFW(1)BE-10	SE STUB TO SE	B5.10	SUR	RFW-102
	12RFW(1)BE-11	SE TO N4	B5.10	VOL	RFW-102
	12RFW(1)BE-11	SE TO N4	B5.10	SUR	RFW-102
B-G-1	RPV STUD 35-1-4A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-4A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-11A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-11A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-18A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-18A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-25A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-25A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-32A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-32A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-39A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-39A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-46A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-46A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-53A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-53A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-60A	RPV STUD	B6.20	VOL	RPV-101

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-G-1	RPV STUD 35-1-60A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-67A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-67A	RPV STUD.	B6.30	SUR	RPV-101
	RPV STUD 35-1-74A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-74A	RPV STUD	B6.30	SUR	RPV-101
	RPV NUT 36-1-4A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-4A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-11A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-11A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-18A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-18A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-25A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-25A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-32A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-32A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-39A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-39A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-46A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-46A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-53A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-53A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-60A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-60A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-67A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-67A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-74A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-74A	RPV NUT	B6.10.	SUR	RPV-101
B-G-2	6SPARE-1BU	FLANGE BOLTING	B7.10	VT-1	RPV-102
	CRD HOUSING 38-59 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-55 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 34-55 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 10-51 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102

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-G-2	CRD HOUSING 14-51 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 26-51 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 10-47 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 26-47 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 34-47 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 14-43 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 38-43 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 02-39 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 14-39 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-39 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 22-35 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 26-35 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 10-27 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 14-27 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 42-27 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 10-23 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 14-23 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-23 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 34-23 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 02-19 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 06-19 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 26-19 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 34-19 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 38-19 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 06-15 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 14-11 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 34-11 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-03 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 26-03 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 34-03 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 42-03 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	RCIC-V-64-BLT	VALVE BOLTING	B7.70	VT-1	RCIC-101

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	4RCIC(13)-4	PIPE TO EL	B9.11	VOL	RCIC-101
	4RCIC(13)-5	EL TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-6	PIPE TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-7	PIPE TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-8	PIPE TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-9	PIPE TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-10	PIPE TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-11	PIPE TO PIPE	B9.11	VOL	RCIC-101
	26MS(1)C-3	PIPE TO EL	B9.11	VOL	MS-103
	26MS(1)C-3	PIPE TO EL	B9.11	SUR	MS-103
	26MS(1)C-3LDI	EL SEAM	B9.12	VOL	MS-103
	26MS(1)C-3LDI	EL SEAM	B9.12	SUR	MS-103
	26MS(1)C-3LDO	EL SEAM	B9.12	VOL	MS-103
	26MS(1)C-3LDO	EL SEAM	B9.12	SUR	MS-103
	26MS(1)D-3	PIPE TO EL	B9.11	VOL	MS-104
	26MS(1)D-3	PIPE TO EL	B9.11	SUR	MS-104
	26MS(1)D-3LDI	EL SEAM	B9.12	VOL	MS-104
	26MS(1)D-3LDI	EL SEAM	B9.12	SUR	MS-104
	26MS(1)D-3LDO	EL SEAM	B9.12	VOL	MS-104
	26MS(1)D-3LDO	EL SEAM	B9.12	SUR	MS-104
	26MS(1)D-4LUI	EL SEAM	B9.12	VOL	MS-104
	26MS(1)D-4LUI	EL SEAM	B9.12	SUR	MS-104
	26MS(1)D-4LUO	EL SEAM	B9.12	VOL	MS-104
	26MS(1)D-4LUO	EL SEAM	B9.12	SUR	MS-104
	26MS(1)D-4	EL TO PIPE	B9.11	VOL	MS-104
	26MS(1)D-4	EL TO PIPE	B9.11	SUR	MS-104
	26MS(1)D-5	PIPE TO PIPE	B9.11	VOL	MS-104
	26MS(1)D-5	PIPR YO PIPE	B9.11	SUR	MS-104
	24RFW(1)A-9	VALVE TO PIPE	B9.11	VOL	RFW-101
	24RFW(1)A-9	VALVE TO PIPE	B9.11	SUR	RFW-101
	24RFW(1)A-12	EL TO PIPE	B9.11	VOL	RFW-101
	24RFW(1)A-12	EL TO PIPE	B9.11	SUR	RFW-101
	12RFW(1)AB-3	EL TO PIPE	B9.11	VOL	RFW-101

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)AB-3	EL TO PIPE	B9.11	SUR	RFW-101
	12RFW(1)AA-1	REDUCER TO PIPE	B9.11	VOL	RFW-101
	12RFW(1)AA-1	REDUCER TO PIPE	B9.11	SUR	RFW-101
	12RFW(1)AA-3	EL TO PIPE	B9.11	VOL	RFW-101
	12RFW(1)AA-3	EL TO PIPE	B9.11	SUR	RFW-101
	12RFW(1)AA-4	PIPE TO EL	B9.11	VOL	RFW-101
	12RFW(1)AA-4	PIPE TO EL	B9.11	SUR	RFW-101
	12RFW(1)AA-8	PIPE TO SE EXT	B9.11	VOL	RFW-101
	12RFW(1)AA-8	PIPE TO SE EXT	B9.11	SUR	RFW-101
	24RFW(1)B-12	EL TO PIPE	B9.11	VOL	RFW-102
	24RFW(1)B-12	EL TO PIPE	B9.11	SUR	RFW-102
	12RFW(1)BD-4	PIPE TO EL	B9.11	VOL	RFW-102
	12RFW(1)BD-4	PIPE TO EL	B9.11	SUR	RFW-102
	12RFW(1)BD-7	EL TO PIPE	B9.11	VOL	RFW-102
	12RFW(1)BD-7	EL TO PIPE	B9.11	SUR	RFW-102
	12RFW(1)BD-8	PIPE TO SE EXT	B9.11	VOL	RFW-102
	12RFW(1)BD-8	PIPE TO SE EXT	B9.11	SUR	RFW-102
	6RFW(11)-4	PIPE TO EL	B9.11	VOL	RFW-103
	6RFW(11)-4	PIPE TO EL	B9.11	SUR	RFW-103
	6RFW(11)-5	EL TO PIPE	B9.11	VOL	RFW-103
	6RFW(11)-5	EL TO PIPE	B9.11	SUR	RFW-103
	6RFW(11)-6	PIPE TO EL	B9.11	VOL	RFW-103
	6RFW(11)-6	PIPE TO EL	B9.11	SUR	RFW-103
	6RFW(11)-7	EL TO PIPE	B9.11	VOL	RFW-103
	6RFW(11)-7	EL TO PIPE	B9.11	SUR	RFW-103
	6RFW(11)-8	PIPE TO TEE	B9.11	VOL	RFW-103
	6RFW(11)-8	PIPE TO TEE	B9.11	SUR	RFW-103
	6RFW(11)-9	TEE TO PIPE	B9.11	VOL	RFW-103
	6RFW(11)-9	TEE TO PIPE	B9.11	SUR	RFW-103
	6RFW(11)-10	PIPE TO REDUCER	B9.11	VOL	RFW-103
	6RFW(11)-10	PIPE TO REDUCER	B9.11	SUR	RFW-103
	4RFW(11)B-1	REDUCER TO PIPE	B9.11	VOL	RFW-103
	4RFW(11)B-1	REDUCER TO PIPE	B9.11	SUR	RFW-103

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	4RFW(11)B-1A	PIPE TO PIPE	B9.11	VOL	RFW-103
	4RFW(11)B-1A	PIPE TO PIPE	B9.11	SUR	RFW-103
	4RFW(11)B-2	PIPE TO EL	B9.11	VOL	RFW-103
	4RFW(11)B-2	PIPE TO EL	B9.11	SUR	RFW-103
	4RFW(11)B-3	EL TO PIPE	B9.11	VOL	RFW-103
	4RFW(11)B-3	EL TO PIPE	B9.11	SUR	RFW-103
	4RFW(11)B-4	PIPE TO EL	B9.11	VOL	RFW-103
	4RFW(11)B-4	PIPE TO EL	B9.11	SUR	RFW-103
	4RFW(11)B-5	EL TO SLEEVE	B9.11	VOL	RFW-103
	4RFW(11)B-5	EL TO SLEEVE	B9.11	SUR	RFW-103
	16RRC(1)A-1/12RRC(1)-N2D	PIPE TO SWL	B9.31	VOL	RRC-101
	16RRC(1)A-1/12RRC(1)-N2D	PIPE TO SWL	B9.31	SUR	RRC-101
	16RRC(1)A-1/12RRC(1)-N2E	PIPE TO SWL	B9.31	VOL	RRC-101
	16RRC(1)A-1/12RRC(1)-N2E	PIPE TO SWL	B9.31	SUR	RRC-101
	16RRC(1)A-2	PIPE TO CAP	B9.11	VOL	RRC-101
	16RRC(1)A-3	CROSS TO PIPE	B9.11	VOL	RRC-101
	16RRC(1)A-3/12RRC(1)-N2B	PIPE TO SWL	B9.31	VOL	RRC-101
	16RRC(1)A-3/12RRC(1)-N2B	PIPE TO SWL	B9.31	SUR	RRC-101
	16RRC(1)A-3/12RRC(1)-N2A	PIPE TO SWL	B9.31	VOL	RRC-101
	16RRC(1)A-3/12RRC(1)-N2A	PIPE TO SWL	B9.31	SUR	RRC-101
	16RRC(1)A-4	PIPE TO CAP	B9.11	VOL	RRC-101
	12RRC(1)-N2A-1	SWL TO PIPE	B9.11	VOL	RRC-101
	12RRC(1)-N2A-1	SWL TO PIPE	B9.11	SUR	RRC-101
	12RRC(1)-N2A-1LD	PIPE SEAM	B9.12	VOL	RRC-101
	12RRC(1)-N2A-1LD	PIPE SEAM	B9.12	SUR	RRC-101
	12RRC(1)-N2A-3	EL TO PIPE	B9.12	VOL	RRC-101
	12RRC(1)-N2B-3	EL TO PIPE	B9.11	VOL	RRC-101
	12RRC(1)-N2C-1	REDUCER TO PIPE	B9.11	VOL	RRC-101
	12RRC(1)-N2C-1	REDUCER TO PIPE	B9.11	SUR	RRC-101
	12RRC(1)-N2C-1LD	PIPE SEAM	B9.12	VOL	RRC-101
	12RRC(1)-N2C-1LD	PIPE SEAM	B9.12	SUR	RRC-101
	12RRC(1)-N2C-1A	PIPE TO PIPE	B9.11	VOL	RRC-101
	12RRC(1)-N2C-1ALD	PIPE SEAM	B9.12	VOL	RRC-101

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	12RRC(1)-N2C-3	EL TO PIPE	B9.11	VOL	RRC-101
	12RRC(1)-N2D-1	SWL TO PIPE	B9.11	VOL	RRC-101
	12RRC(1)-N2D-1	SWL TO PIPE	B9.11	SUR	RRC-101
	12RRC(1)-N2D-1LD	PIPE SEAM	B9.12	VOL	RRC-101
	12RRC(1)-N2D-1LD	PIPE SEAM	B9.12	SUR	RRC-101
	20RRC(6)-2LU	PIPE SEAM	B9.12	VOL	RRC-105
	20RRC(6)-2LU	PIPE SEAM	B9.12	SUR	RRC-105
	20RRC(6)-2	PIPE TO EL	B9.11	VOL	RRC-105
	20RRC(6)-2	PIPE TO EL	B9.11	SUR	RRC-105
	20RRC(6)-2LDI	EL SEAM	B9.12	VOL	RRC-105
	20RRC(6)-2LDI	EL SEAM	B9.12	SUR	RRC-105
	20RRC(6)-2LDO	EL SEAM	B9.12	VOL	RRC-105
	20RRC(6)-2LDO	EL SEAM	B9.12	SUR	RRC-105
B-K-1	MS-HC-1(W)	4 WELDED LUGS	B10.10	SUR	MS-103
	MS-HD-1(W)	4 WELDED LUGS	B10.10	SUR	MS-104
	RWCU-1C-4PS(W)	8 WELDED LUGS	B10.10	SUR	RWCU-101
	RWCU-1C-3(W)	8 WELDED LUGS	B10.10	SUR	RWCU-101
B-M-2	LPCS-V-6-BDY	VALVE BODY	B12.40	VT-3	LPCS-101
	MS-V-28C-BDY	VALVE BODY	B12.40	VT-3	MS-103
	RRC-V-60A-BDY	VALVE BODY	B12.40	VT-3	RRC-101
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
	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

* Limited to two surv. specimen holders and RPV top head steam dryer holddown lugs (4).

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	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
C-F-2	6RCIC(1)-82	PIPE TO PIPE	C5.51	VOL	RCIC-205
	6RCIC(1)-82	PIPE TO PIPE	C5.51	SUR	RCIC-205
	6RCIC(1)-88	PIPE TO ELL	C5.51	VOL	RCIC-205
	6RCIC(1)-88	PIPE TO ELL	C5.51	SUR	RCIC-205
	6RCIC(1)-99	ELL TO PIPE	C5.51	VOL	RCIC-205
	6RCIC(1)-99	ELL TO PIPE	C5.51	SUR	RCIC-205

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	6RCIC(1)-105	PIPE TO ELBOW	C5.51	VOL	RCIC-205
	6RCIC(1)-105	PIPE TO ELBOW	C5.51	SUR	RCIC-205
	6RCIC(22)-10	ELL TO TEE	C5.51	VOL	RCIC-205
	6RCIC(22)-10	ELL TO TEE	C5.51	SUR	RCIC-205
	16HPCS(1)-7	ELL TO PIPE	C5.51	VOL	HPCS-202
	16HPCS(1)-7	ELL TO PIPE	C5.51	SUR	HPCS-202
	16HPCS(1)-27	PIPE TO EL	C5.51	VOL	HPCS-202
	16HPCS(1)-27	PIPE TO ELL	C5.51	SUR	HPCS-202
	16LPCS(1)-2/6LPCS(4)-2	BRANCH CONN	C5.81	SUR	LPCS-202
	16LPCS(1)-8	ELL TO PIPE	C5.51	VOL	LPCS-202
	16LPCS(1)-8	ELL TO PIPE	C5.51	SUR	LPCS-202
	12LPCS(3)-5	VLV TO PIPE	C5.51	VOL	LPCS-202
	12LPCS(3)-5	VLV TO PIPE	C5.51	SUR	LPCS-202
	12LPCS(3)-6	PIPE TO ELL	C5.51	VOL	LPCS-202
	12LPCS(3)-6	PIPE TO ELL	C5.51	SUR	LPCS-202
	16LPCS(1)-23	PIPE TO PIPE	C5.51	VOL	LPCS-202
	16LPCS(1)-23	PIPE TO PIPE	C5.51	SUR	LPCS-202
	16LPCS(1)-27	ELL TO PIPE	C5.51	VOL	LPCS-202
	16LPCS(1)-27	ELL TO PIPE	C5.51	SUR	LPCS-202
	20RHR(1)A-2	PIPE TO NOZZLE	C5.51	VOL	RHR-201
	20RHR(1)A-2	PIPE TO NOZZLE	C5.51	SUR	RHR-201
	18RHR(11)A-1	TEE TO PIPE	C5.51	VOL	RHR-201
	18RHR(11)A-1	TEE TO PIPE	C5.51	SUR	RHR-201
	18RHR(11)A-14	PIPE TO TEE	C5.51	VOL	RHR-201
	18RHR(11)A-14	PIPE TO TEE	C5.51	SUR	RHR-201
	20RHR(1)A-6	PIPE TO REDUCER	C5.51	VOL	RHR-201
	20RHR(1)A-6	PIPE TO REDUCER	C5.51	SUR	RHR-201
	18RHR(1)A-47	PIPE TO TEE	C5.51	VOL	RHR-201
	18RHR(1)A-47	PIPE TO TEE	C5.51	SUR	RHR-201
	18RHR(1)A-54	PIPE TO TEE	C5.51	VOL	RHR-201
	18RHR(1)A-54	PIPE TO TEE	C5.51	SUR	RHR-201
	14RHR(1)A-13	EL TO PIPE	C5.51	VOL	RHR-201
	14RHR(1)A-13	EL TO PIPE	C5.51	SUR	RHR-201

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.
D-C	FPC-908N(W)	WELDED ATTACH	D3.30	VT-3	FPC-301
IWF	RCIC-72	SPRING	F-X	VT3H	RCIC-101
	RCIC-1C-16	PSA-3 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-1C-7	PSA-3 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-68	SPRING	F-X	VT3H	RCIC-101
	RCIC-1C-8	PSA-3 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-127	SPRING	F-X	VT3H	RCIC-102
	RCIC-936N	PSA-1 SN(2)	F-X	VT3H	RCIC-102
	RCIC-935N	PSA-1 SNUBBER	F-X	VT3H	RCIC-102
	RCIC-941N	SPRING	F-X	VT3H	RCIC-102
	RCIC-934N	PSA-3 SNUBBER	F-X	VT3H	RCIC-102
	RCIC-933N	PSA-3 SNUBBER	F-X	VT3H	RCIC-102
	RCIC-932N	PSA-1 SN(2)	F-X	VT3H	RCIC-102
	RCIC-128	PSA-3 SNUBBER	F-X	VT3H	RCIC-102
	RCIC-129	SPRING	F-X	VT3H	RCIC-102
	RCIC-955N	BOX	F-X	VT3H	RCIC-205
	RCIC-954N	BOX	F-X	VT3H	RCIC-205
	RCIC-22	BOX	F-X	VT3H	RCIC-205
	RCIC-952N	BOX	F-X	VT3H	RCIC-205
	RCIC-29	ANCHOR	F-X	VT3H	RCIC-205
	RCIC-86	SPRING	F-X	VT3H	RCIC-205
	RCIC-88	BOX	F-X	VT3H	RCIC-205
	RCIC-90	STRUT	F-X	VT3H	RCIC-205
	RCIC-91	ANCHOR	F-X	VT3H	RCIC-205
	RCIC-93	BOX	F-X	VT3H	RCIC-205
	RCIC-95	BOX	F-X	VT3H	RCIC-205
	RCIC-97	SPRING	F-X	VT3H	RCIC-205
	RCIC-98	STRUT	F-X	VT3H	RCIC-205
	RCIC-99	STRUT	F-X	VT3H	RCIC-205
	RCIC-100	PSA-1/2 SN(2)	F-X	VT3H	RCIC-205
	HPCS-1	SPRING	F-X	VT3H	HPCS-202
	HPCS-23	SPRING	F-X	VT3H	HPCS-202

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-21	RIGID	F-X	VT3H	HPCS-202
	HPCS-20	RIGID	F-X	VT3H	HPCS-202
	HPCS-903N	STRUT	F-X	VT3H	HPCS-202
	HPCS-24	STRUT	F-X	VT3H	HPCS-202
	HPCS-25	SPRING	F-X	VT3H	HPCS-202
	HPCS-26	STRUT	F-X	VT3H	HPCS-202
	HPCS-27	STRUT	F-X	VT3H	HPCS-202
	HPCS-28	BOX	F-X	VT3H	HPCS-202
	HPCS-917N	STRUT	F-X	VT3H	HPCS-202
	HPCS-915N	STRUT	F-X	VT3H	HPCS-202
	HPCS-909N	STRUT	F-X	VT3H	HPCS-202
	LPCS-38	BOX	F-X	VT3H	LPCS-202
	LPCS-39	BOX	F-X	VT3H	LPCS-202
	LPCS-11	SPRING	F-X	VT3H	LPCS-202
	LPCS-12	BOX	F-X	VT3H	LPCS-202
	LPCS-14	ANCHOR	F-X	VT3H	LPCS-202
	LPCS-17	BOX	F-X	VT3H	LPCS-202
	LPCS-20	STRUT	F-X	VT3H	LPCS-202
	LPCS-41	STRUT	F-X	VT3H	LPCS-202
	LPCS-42	BOX	F-X	VT3H	LPCS-202
	LPCS-22	RIGID	F-X	VT3H	LPCS-202
	LPCS-23	SPRING	F-X	VT3H	LPCS-202
	LPCS-24	BOX	F-X	VT3H	LPCS-202
	LPCS-25	SPRING	F-X	VT3H	LPCS-202
	LPCS-903N	ANCHOR	F-X	VT3H	LPCS-202
	RHR-601	STRUT	F-X	VT3H	RHR-201
	RHR-600	STRUT	F-X	VT3H	RHR-201
	RHR-598	SPRING	F-X	VT3H	RHR-201
	RHR-237	STRUT	F-X	VT3H	RHR-201
	RHR-234	BOX	F-X	VT3H	RHR-201
	RHR-1004N	STRUT	F-X	VT3H	RHR-201
	RHR-235	PSA-10 SNUBBER	F-X	VT3H	RHR-201
	RHR-350	SPRING	F-X	VT3H	RHR-201

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-965N	ANCHOR	F-X	VT3H	RHR-201
	RHR-1019N	STRUT	F-X	VT3H	RHR-201
	RHR-240	BOX	F-X	VT3H	RHR-201
	RHR-964N	ANCHOR	F-X	VT3H	RHR-201
	MS-HC-1	SPRING (2)	F-X	VT3H	MS-103
	MS-SC-6	PSA-35 SNUBBER	F-X.	VT3H	MS-103
	MS-SC-7	PSA-35 SNUBBER	F-X	VT3H	MS-103
	MS-SC-5	PSA-35 SNUBBER	F-X	VT3H	MS-103
	MS-SC-8	PSA-35 SNUBBER	F-X	VT3H	MS-103
	MS-HC-2	SPRING	F-X	VT3H	MS-103
	MS-SD-6	PSA-35 SNUBBER	F-X	VT3H	MS-104
	MS-SD-7	PSA-35 SNUBBER	F-X	VT3H	MS-104
	MS-SD-5	PSA-35 SNUBBER	F-X	VT3H	MS-104
	MS-SD-9	PSA-35 SNUBBER	F-X	VT3H	MS-104
	MS-260	SPRING	F-X	VT3H	MS-105
	MS-1C-1PS	STRUT	F-X	VT3H	MS-105
	MS-261	SPRING	F-X	VT3H	MS-105
	MS-155	STRUT	F-X	VT3H	MS-202
	MS-178	SPRING	F-X	VT3H	MS-202
	MS-179	STRUT(2)	F-X	VT3H	MS-202
	MS-152	SPRING (2)	F-X	VT3H	MS-202
	MS-151	PSA-3 SN(2)	F-X	VT3H	MS-202
	MS-150	STRUT	F-X	VT3H	MS-202
	MS-149	SPRING (2)	F-X	VT3H	MS-202
	MS-146	SPRING (2)	F-X	VT3H	MS-202
	MS-144	SPRING	F-X	VT3H	MS-202
	MS-142	SPRING	F-X	VT3H	MS-202
	MS-31	STRUT	F-X	VT3H	MS-203
	MS-30	SPRING (2)	F-X	VT3H	MS-203
	MS-49	SPRING	F-X	VT3H	MS-203
	MS-28	SPRING	F-X	VT3H	MS-203
	MS-141	SPRING	F-X	VT3H	MS-203
	MS-24	SPRING	F-X	VT3H	MS-203

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		MS-55	SPRING (2)	F-X	VT3H	MS-204
		RFW-152	SPRING	F-X	VT3H	RFW-101
		RFW-151	PSA-35 SNUBBER	F-X	VT3H	RFW-101
		RFW-929N	PSA-10 SNUBBER	F-X	VT3H	RFW-101
		RFW-159	SPRING	F-X	VT3H	RFW-101
		RFW-182	SPRING	F-X	VT3H	RFW-102
		RFW-184	SPRING	F-X	VT3H	RFW-102
		RFW-173	SPRING	F-X	VT3H	RFW-102
		RFW-171	PSA-10 SNUBBER	F-X	VT3H	RFW-102
		RFW-915N	PSA-10 SNUBBER	F-X	VT3H	RFW-102
		RFW-183	SPRING	F-X	VT3H	RFW-102
		RFW-177	SPRING	F-X	VT3H	RFW-103
		RFW-181	SPRING	F-X	VT3H	RFW-103
		RRC-HA-9	SPRING	F-X	VT3H	RRC-101
		RRC-SA-13	PSA-35 SNUBBER	F-X	VT3H	RRC-101
		RRC-SA-11	PSA-35 SNUBBER	F-X	VT3H	RRC-101
		RRC-HA-8	SPRING	F-X	VT3H	RRC-101
		RRC-SA-12	PSA-35 SNUBBER	F-X	VT3H	RRC-101
		RRC-SA-14	PSA-35 SNUBBER	F-X	VT3H	RRC-101
		RRC-1	SPRING	F-X	VT3H	RRC-105
		RHR-SA-50	PSA-35 SNUBBER	F-X	VT3H	RRC-105
		RWCU-1C-4PS	STRUT	F-X	VT3H	RWCU-101
		RWCU-1C-3	PSA-3 SN(2)	F-X	VT3H	RWCU-101
		FPC-170	BOX	F-X	VT3H	FPC-201
		FPC-172	BOX	F-X	VT3H	FPC-201
		FPC-237	BOX	F-X	VT3H	FPC-201
		FPC-238	BOX	F-X	VT3H	FPC-201
		FPC-239	BOX	F-X	VT3H	FPC-201
		FPC-57	BOX	F-X	VT3H	FPC-301
		FPC-58	BOX	F-X	VT3H	FPC-301
		FPC-919N	RIGID	F-X	VT3H	FPC-301
		FPC-59	BOX	F-X	VT3H	FPC-301
		FPC-60	BOX	F-X	VT3H	FPC-301

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-61	SPRING	F-X	VT3H	FPC-301
	FPC-62	BOX	F-X	VT3H	FPC-301
	FPC-909N	RIGID	F-X	VT3H	FPC-301
	FPC-908N	PSA-1 SN(2)	F-X	VT3H	FPC-301
	FPC-41	SPRING	F-X	VT3H	FPC-301
	FPC-40	STRUT	F-X	VT3H	FPC-301
	FPC-39	SPRING	F-X	VT3H	FPC-301
	FPC-208	BOX	F-X	VT3H	FPC-302
	FPC-193	SPRING	F-X	VT3H	FPC-303
	FPC-207	BOX	F-X	VT3H	FPC-303
	FPC-192	BOX	F-X	VT3H	FPC-303
	FPC-191	BOX	F-X	VT3H	FPC-303
	FPC-188	BOX	F-X	VT3H	FPC-303
	FPC-189	SPRING	F-X	VT3H	FPC-303
	FPC-102	RIGID	F-X	VT3H	FPC-304
	FPC-103	RIGID	F-X	VT3H	FPC-304
	FPC-104	RIGID	F-X	VT3H	FPC-304
	FPC-105	RIGID	F-X	VT3H	FPC-304
	FPC-106	RIGID	F-X	VT3H	FPC-304
	FPC-107	RIGID	F-X	VT3H	FPC-304
	FPC-108	RIGID	F-X	VT3H	FPC-304
	FPC-109	RIGID	F-X	VT3H	FPC-304
	FPC-110	RIGID	F-X	VT3H	FPC-304
	FPC-111	BOX	F-X	VT3H	FPC-304
	FPC-113	BOX	F-X	VT3H	FPC-304
	FPC-92	RIGID	F-X	VT3H	FPC-305
	FPC-91	STRUT	F-X	VT3H	FPC-305
	FPC-77	RIGID	F-X	VT3H	FPC-305
	FPC-76	BOX	F-X	VT3H	FPC-305
	FPC-75	RIGID	F-X	VT3H	FPC-305
	FPC-74	RIGID	F-X	VT3H	FPC-305
	FPC-73	BOX	F-X	VT3H	FPC-305
	FPC-72	RIGID	F-X	VT3H	FPC-305

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-71	BOX	F-X	VT3H	FPC-305
	FPC-68	RIGID	F-X	VT3H	FPC-305
	SLC-4453-24	RIGID	F-X	VT3H	SLC-101
	SLC-4453-25A	RIGID	F-X	VT3H	SLC-101
	SLC-4453-26B	RIGID	F-X	VT3H	SLC-101
	SLC-4453-214	RIGID	F-X	VT3H	SLC-101
	SLC-4453-215	RIGID	F-X	VT3H	SLC-101
	SLC-4453-29	RIGID	F-X	VT3H	SLC-101
	SLC-4453-210	RIGID	F-X	VT3H	SLC-101
	SLC-4453-211	RIGID	F-X	VT3H	SLC-101
	SLC-4453-212	RIGID	F-X	VT3H	SLC-101
	SLC-4453-213	RIGID	F-X	VT3H	SLC-101
	SLC-4453-31	RIGID	F-X	VT3H	SLC-101
	SLC-4453-32	RIGID	F-X	VT3H	SLC-101

APPENDIX B

Note: Outage RF90A is identified as "R5" in this summary

Table Notes:

1. UT scans of welds were from both sides except where restricted by configuration or access, as noted in the "Remarks" column in the table. However, in all cases, excepted as noted in Note 2 below, these welds did receive full coverage from one side and meet ASME Section XI code requirements.

2. Main steam nozzles N3-108, N3-252 and N3-288 did not receive full volumetric examination to meet Section XI code requirements due to configuration (UT examination volume was 86.8% for the 45° beam angle exam and 90.4% for the 60° beam angle exam).

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-101

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
N3-108							
	VOL	1RPU-053	0				NO RECORDABLE INDICATIONS. NO SCAN NOZZLE SIDE DUE TO CONFIG.
		1RPU-052	45				NO RECORDABLE INDICATIONS. EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE.
		1RPU-051	60				NO RECORDABLE INDICATIONS. EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE.
N3-108-IR							
	VOL	1RPU-054	0				NO RECORDABLE INDICATIONS
		1RPU-055	25				NO RECORDABLE INDICATIONS
N3-252							
	VOL	1RPU-053	0				NO RECORDABLE INDICATIONS. NO SCAN NOZZLE SIDE DUE TO CONFIG.
		1RPU-052	45				NO RECORDABLE INDICATIONS EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE.
		1RPU-051	60				NO RECORDABLE INDICATIONS. EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE.
N3-252-IR							
	VOL	1RPU-054	0				NO RECORDABLE INDICATIONS
		1RPU-055	25				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-101

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

DATE 10/22/90

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
N3-288							
	VOL	1RPU-053	0				NO RECORDABLE INDICATIONS. NO SCAN NOZZLE SIDE DUE TO CONFIG.
		1RPU-052	45				NO RECORDABLE INDICATIONS. EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE.
		1RPU-051	60				NO RECORDABLE INDICATIONS. EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE.
N3-288-IR							
	VOL	1RPU-054	0				NO RECORDABLE INDICATIONS
		1RPU-055	25				NO RECORDABLE INDICATIONS
N4-270-IR							
	VOL	1RPU-056	25,70				THREE EXAMINERS RECEIVED 610 MR EXPOSURE ON N4-270-IR & N4-270-NB EXAMINATIONS.
N4-270-NB							
	VOL	1RPU-056	25				THREE EXAMINERS RECEIVED 610 MR EXPOSURE ON N4-270-IR & N4-270-NB EXAMINATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-101

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RPV STUD 35-1-4A							
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-11A							
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-18A							
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-25A							
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-32A							
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-39A							
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-030		ACC			ONE 1/4" LINEAR INDICATION (AXIAL DIRECTION) IN SHANK, 4-1/2" FROM BASE OF TAPER.
RPV STUD 35-1-46A							
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-030	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-101

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RPV STUD 35-1-53A							
	VOL	1RPV-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-030	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-60A							
	VOL	1RPV-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-030	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-67A							
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPV-029	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-74A							
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-4A							
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-11A							
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-101

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

DATE 10/22/90

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RPV NUT 36-1-18A	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS
RPV NUT 36-1-25A	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS
RPV NUT 36-1-32A	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS
RPV NUT 36-1-39A	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-101

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1RPU-060	45				NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-46A							
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-53A							
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-60A							
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-67A							
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-101

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-74A							
	VOL	1RPU-058	0				NO RECORDABLE INDICATIONS
		1RPU-059	37				NO RECORDABLE INDICATIONS
		1RPU-060	45				NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC				NO RECORDABLE INDICATIONS
RPV WASHERS							
	VT-1	1RPV-122	ACC				THE FOLLOWING WASHERS WERE EXAMINED: 36-1-4A, 11A, 18A, 25A, 32A, 39A, 46A, 53A, 60A, 67A, 74A.
INCORE DRY TUBES							
	VT-1	1RPV-125	ACC				NO RECORDABLE INDICATIONS
CORE SPRAY SPARGERS							
	VT-1	1RPV-125	ACC				NO RECORDABLE INDICATIONS
STEAM DRYER							
	VT-1	1RPV-125	ACC				NO RECORDABLE INDICATIONS.
RPV INTERIOR							
	VT-3	1RPV-125	ACC				EXAM LMTD. TO SPEC. HOLDERS. NO ANALOMIES DETECTED IN BRACKETS AND WELDS OF THE TWO SURVEILLANCE SPECIMEN HOLDERS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-101

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

DATE 10/22/90

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	VT-1	1RPV-121	ACC				NO RECORDABLE INDICATIONS. VT-1 VISUAL EXAM OF 4 STEAM DRYER HOLDDOWN LUGS ON ID OF TOP RPV HD.
RPV-PB-101(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
6SPARE-1BU							
	VT-1	1RPV-123		ACC			MINOR CORROSION ON TOP AND BOTTOM OF STUD ENDS AND IN SOME THREADS. NO APPARENT MATERIAL LOSS. EXAMINED IN PLACE.
CRD HOUSING 38-59 BLT							
	VT-1	1RPV-124		ACC			2 ACCEP, 6 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION.
		1RPV-116	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 18-55 BLT							
	VT-1	1RPV-124	ACC				8 REJ. FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-101	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 34-55 BLT							
	VT-1	1RPV-124				REJ	2 ACCEP, 6 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-113	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 10-51 BLT							
	VT-1	1RPV-124				REJ	2 ACCEP, 6 REJ FOR PITTING CORR. THE TWO ACCEPTABLE BOLTS WERE USED IN CRD HOUSING 34-47 AT R5. REF. ERTR 1-014 FOR EVALUATION.

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1RPV-091	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 14-51 BLT	VT-1	1RPV-124				REJ	4 ACCEP, 4 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION.
		1RPV-097	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 26-51 BLT							
	VT-1	1RPV-124				REJ	3 ACCEP, 5 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-107	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 10-47 BLT							
	VT-1	1RPV-124				REJ	6 ACCEP, 2 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-090	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 26-47 BLT							
	VT-1	1RPV-124				REJ	3 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-106	ACC				NO RECORDABLE INICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 34-47 BLT							
	VT-1	1RPV-124	ACC				NO RECORDABLE INDICATIONS. 8 IN SET TO BE USED AS SPARES.
		1RPV-119		ACC			'PSI' ON 6 BLTS REMOVED FROM CRD DRIVE 02-39 & 2 FROM 10-51 AT R5. CLEANED, EXAMINED AND INSTALLED IN 34-47 AT R5. SLIGHT TARNISH STAINS AND MINOR CORR. PITS.
CRD HOUSING 14-43 BLT							
	VT-1	1RPV-124				REJ	1 ACCEP, 7 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-096	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 38-43 BLT							
	VT-1	1RPV-124				REJ	8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1RPV-115	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 02-39 BLT	VT-1	1RPV-124				REJ	6 ACCEP, 2 REJ FOR PITTING CORR. 6 ACCEP BOLTS WERE ASSIGNED TO CRD 03-47 FOR INSTALLATION AT R5. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-085	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 14-39 BLT	VT-1	1RPV-124				REJ	4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-095	ACC				NO RECORDABLE INDICATIONS. PSI ON 8NEW BOLTS INSTALLED AT R5
CRD HOUSING 18-39 BLT	VT-1	1RPV-124				REJ	8 REJ FOR PITTING CORROSION. REF ERTR 1-014 FOR EVALUATION
		1RPV-100	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 22-35 BLT	VT-1	1RPV-124				REJ	8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-102	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT..NO....	EXAM. MTH.	EXAM. DATA SHEET NO....	EXAMINATION RESULTS NO INDIC..	INSIGNIF INDIC..	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 26-35 BLT							
	VT-1	1RPV-124				REJ	8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-105	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 10-27 BLT							
	VT-1	1RPV-124				REJ	3 ACCEP, 5 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-089	ACC				NO RECORDABLE INDICATIONS. PSI OF 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 14-27 BLT							
	VT-1	1RPV-124				REJ	5 ACCEP, 3 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION.
		1RPV-094	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 42-27 BLT							
	VT-1	1RPV-124				REJ	2 ACCEP, 6 REJ FOR PITTING CORR. REF. ERTR 1-104 FOR EVALUATION.
		1RPV-118	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 10-23 BLT							
	VT-1	1RPV-124	ACC				NO RECORDABLE INDICATIONS. 8 BOLTS EXAMINED AND ACCEPTED.
		1RPV-088	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW CRD FLG CAP SCREWS

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 14-23 BLT							
	VT-1	1RPV-124				REJ	5 ACCEP, 3 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-093	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 18-23 BLT							
	VT-1	1RPV-124				REJ	2 ACCEP, 6 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-099				REJ	NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 34-23 BLT							
	VT-1	1RPV-124				REJ	5 ACC, 3 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION.
		1RPV-111	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 02-19 BLT							
	VT-1	1RPV-124				REJ	4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-084	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 INSTALLED AT R5.
CRD HOUSING 06-19 BLT							
	VT-1	1RPV-124				REJ	4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-104 FOR EVALUATION.

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1RPV-087	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 26-19 BLT	VT-1	1RPV-124				REJ	4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-104	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 34-19 BLT	VT-1	1RPV-124				REJ	6 ACCEP, 2 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-110	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 38-19 BLT	VT-1	1RPV-124				REJ	5 ACCEP, 3 REJ FOR PITTING CORR. REF. ERTR 1-104 FOR EVALUATION.
		1RPV-114	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 06-15 BLT	VT-1	1RPV-124				REJ	7 EXAMINED: 4 ACCEP, 3 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-086	ACC				NO RECORDABLE INDICATIONS. PSI OF 8 NEW BOLTS INSTALLED AT R5

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 14-11 BLT							
	VT-1	1RPV-124				REJ	4 ACCEP, 4 REJ FOR PITING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-092	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 34-11 BLT							
	VT-1	1RPV-124				REJ	5 ACCEP, 3 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-109	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 18-03 BLT							
	VT-1	1RPV-124				REJ	1 ACCEP, 7 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-098	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 26-03 BLT							
	VT-1	1RPV-124				REJ	2 ACCEP, 6 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-103	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 34-03 BLT							
	VT-1	1RPV-124				REJ	8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-108	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RPV-102

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

DATE 10/22/90

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 42-03 BLT							
	VT-1	1RPV-124				REJ	1 ACCEP, 7 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-117	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5.
RPV-PB-102(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RCIC-101

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RCIC(12)-4
DESCRIPTION: 2CIC STEAM SUPPLY

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-V-64-BLT	VT-1	1RIV-007	ACC				VIS. EXAM WITH BOLTS IN PLACE.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RCIC-101

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RCIC(13)-4	VOL	1RIU-036		45			1 IND. AT 80% DAC; LIMITED DNST SCANS DUE TO 1" DRAIN LINE CONFIG.
4RCIC(13)-5	VOL	1RIU-037		45			1 IND. AT 100% DAC. LIMITED UPSTM SCAN DUE TO 1" DRAIN LINE CONFIG.
RCIC-72	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
4RCIC(13)-6	VOL	1RIU-038		45			ID GEOMETRY NOTED AT 50-60% DAC.
4RCIC(13)-7	VOL	1RIU-039		45			ID GEOMETRY NOTED AT 80% DAC.
RCIC-1C-16	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-7	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
4RCIC(13)-8	VOL	1RIU-040		45			ID GEOMETRY NOTED AT 80% DAC.
RCIC-68	VT3H	1HV-0192	ACC				COLD SETTING RECORDED WAS 340 LBS. VS. SPECIFIED 277 LBS. PSI SETTING IN 1984 WAS 325 LBS. AND EVAL. AS ACCEPT. PRESENT COLD SET WAS EVAL. AS ACCEPT. (ERTR 1-011).
RCIC-1C-8	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
4RCIC(13)-9	VOL	1RIU-041		45			ID GEOMETRY NOTED AT 80% DAC.
4RCIC(13)-10	VOL	1RIU-042		45			ID GEOMETRY NOTED AT 60-70% DAC.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RCIC-101

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RCIC(13)-11							
	VOL	1RIU-043	45				LIMITED DSTM AXIAL SCAN DUE TO CONFIG. OF WELDED LUGS.
RCIC-PB-101(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-127	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-936N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-935N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-941N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-934N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-933N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-932N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-128	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-129	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-P8-102(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-955N							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-954N							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
6RCIC(1)-82							
	VOL	1RIU-031		45			1 IND. AT 65% DAC.
	SUR	1RIM-024	ACC				NO RECORDABLE INDICATIONS
RCIC-22							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-952N							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-29							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
6RCIC(1)-88							
	VOL	1RIU-035		45		ACC	ID GEOMETRY NOTED AT 100% DAC. UNACCEPTABLE MT IND. OF 1RIM-027 ACCEPTED BY VOL. UT EXAM OF AREA, AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-009.
	SUR	1RIM-027				ACC	UNACCEPTABLE 1.6" LINEAR MT IND. WAS ACCEPTED BY VOL. UT EXAM OF IND. AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1RIU-035 AND ERTR NO. 1-009.
RCIC-86							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
6RCIC(1)-99							
	VOL	1RIU-034	45				UNACCEPABLE MT IND. OF 1RIM-026 WAS ACCEPTED BY VOLUMETRIC UT EXAM OF INC. AREA, AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-008.
	SUR	1RIM-026				ACC	UNACCEPTABLE 1.85" LINEAR MT IND. WAS ACCEPTED BY VOL. UT EXAM OF INDICATION AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1RIU-034 AND ERTR NO. 1-008.
RCIC-88							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-90							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-91							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-93							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-95							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
6RCIC(1)-105							
	VOL	1RIU-033		45			ID GEOMETRY NOTED AT 100% DAC.
	SUR	1RIM-025	ACC				NO RECORDABLE INDICATIONS
RCIC-97							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-98							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-99							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-100							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
6RCIC(22)-10							
	VOL	1RIU-032	45				LIMITED DNST AXIAL SCANS DUE TO TEE CONFIGURATION.
	SUR	1RIM-023	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
HPCS-PB-101(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
HPCS-1							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
16HPCS(1)-7							
	VOL	1HPU-011		46		ACC	COUNTERBORE AND UNACCEPTABLE MT AREA OF 1HPM-005 SEEN. UNACCEP MT IND. ACCEPTED BY VOL. UT EXAM OF IND. AREA, AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-006.
	SUR	1HPM-005				ACC	UNACCEPTABLE 1.7" LINEAR MT IND. WAS ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1HPU-011 AND ERTR NO. 1-006.
HPCS-23							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-21							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-20							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-903N							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-24							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-25							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-26							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
16HPCS(1)-27							
	VOL	1HPU-012		45			ID GEOMETRY NOTED AT 65% DAC.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
HPCS-27	SUR	1HPM-006	ACC				NO RECORDABLE INDICATIONS
HPCS-28	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-917N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-915N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-909N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
LPCS-V-6-BDY							
	VT-3	1LPV-004		ACC			LIGHT CORROSION ON BONNET. NO APPARENT MATERIAL LOSS. BLACK COATING ON VALVE INTERNALS.
LPCS-PB-101(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. LPCS-202

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
16LPCS(1)-2/6LPCS(4)-2							
	VOL	1LPM-020	45			ACC	UNACCEP 1.75" LINEAR MT IND. OF 1LPM-011 WAS ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1LPU--20 AND ERTR NO. 1-007.
	SUR	1LPM-011				ACC	UNACCEP 1.75" LINEAR MT IND. OF 1LPM-011 WAS ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1LPU-020 AND ERTR NO. 1-007.
LPCS-38							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-39							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
16LPCS(1)-8							
	VOL	1LPU-021	45				NO RECORDABLE INDICATIONS
	SUR	1LPM-013		ACC			NO RECORDABLE INDICATIONS
LPCS-11							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-12							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-14							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-17							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12LPCS(3)-5							
	VOL	1LPU-022	45				LIMITED SCANS ON VALVE SIDE DUE TO CONFIGURATION.
	SUR	1LPM-012	ACC				NO RECORDABLE INDICATIONS
12LPCS(3)-6							
	VOL	1LPU-022	45				LIMITED SCANS ON VALVES SIDE DUE TO CONFIGURATION.
	SUR	1LPM-012	ACC				NO RECORDABLE INDICATIONS
16LPCS(1)-23							
	VOL	1LPU-023		45		ACC	ONE IND. AT 12%DAC. TWO UNACCEPT. LINEAR MT IND. AREAS OF 1LPM-014 WERE ACCEPTED BY VOL. UT EXAM, AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-012.
	SUR	1LPM-014				ACC	UNACCEPTABLE LIN. MT INDICATIONS OF 1LPM-014 ACCEPTED BY VOLUMETRIC UT EXAM OF MT IND. AREA (1LPU-023) AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-012.
LPCS-20							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-41							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. LPCS-202

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
16LPCS(1)-27							
	VOL	1LPU-025		45		ACC	ID GEOMETRY NOTED AT 70-80% DAC. UNACCEPT. LIN. MT IND. OF 1LPM-015 ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA, AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-013.
	SUR	1LPM-015				ACC.	UNACCEPTABLE LINEAR MT INDICATION WAS ACCEPTED BY VOLUMETRIC UT EXAM OF MT AREA, AS PERMITTED BY IWF-3514.2(b). REF. 1LPU-025 AND ERTR 1-013.
LPCS-42							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-22							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-23							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-24							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-25							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-903N							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-PB-101(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-PB-102(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-PB-103(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-PB-104(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RHR-105

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-PB-105(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RHR-106

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-PB-106(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-601							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-600							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-598							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
20RHR(1)A-2							
	VOL	1RHU-081	45				NO DNST AXIAL SCAN DUE TO NOZZLE CONFIGURATION.
	SUR	1RHM-038	ACC				NO RECORDABLE INDICATIONS
18RHR(11)A-1							
	VOL	1RHU-077	45				NO RECORDABLE INDICATIONS
	SUR	1RHM-035	ACC				NO RECORDABLE INDICATIONS
18RHR(11)A-14							
	VOL	1RHU-078	45				NO RECORDABLE INDICATIONS
	SUR	1RHM-035	ACC				NO RECORDABLE INDICATIONS
20RHR(1)A-6							
	VOL	1RHU-076	45				NO RECORDABLE INDICATIONS
	SUR	1RHM-036	ACC				NO RECORDABLE INDICATIONS
18RHR(1)A-47							
	VOL	1RHU-080	45			ACC	NO DNST AXIAL SCAN DUE TO CONFIG. OF TEE. UNACCEPTABLE LINEAR MT INDICATION OF 1RHM-034 WAS ACCEPTD BY VOLUMETRIC UT EXAM OF IND. AREA AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-010.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
	SUR	1RHM-034				ACC	UNACCEPTABLE LINEAR MT INDICATION AREA ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA (1RHU-080), AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-010.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
18RHR(1)A-54	VOL	1RHU-079	45				NO DNST AXIAL SCAN DUE TO CONFIG. OF TEE.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
18RHR(1)A-54							
	SUR	1RHM-037	ACC				NO RECORDABLE INDICATIONS
RHR-237							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-234							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-1004N							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-235							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-350							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-965N							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-1019N							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-240							
	VT3H	1HV-0193		ACC			HEAVY RUST LAYER ON 90% OF WELDS.
14RHR(1)A-13							
	VOL	1RHU-082		46			ID GEOMETRY NOTED AT 55-85% DAC.
	SUR	1RHM-039	ACC				NO RECORDABLE INDICATIONS
RHR-964N							
	VT3H	1HV-0193		ACC			ONE NUT ON BASE PLATE BOLTING HAS TWO THREADS SHOWING.

WNP-02
INTERVAL: 01
PERIOD: 01
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-SA-7							
	VT3H	1HV-0208	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI OF NEW STRUT.
MS-SA-4							
	VT3H	1HV-0207	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552). PSI OF NEW STRUT.
MS-SA-1							
	VT3H	1HV-0205	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI FOR NEW STRUT.
MS-SA-2							
	VT3H	1HV-0206	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI OF NEW STRUT.
MS-PB-101(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 1
OUTAGE: R5
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 10/22/90

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-097	ACC				PSI OF INTERNAL MACHINED SURFACES. LIGHT SCRATCHES AND PITTING NOTED ON PARTS OF BORE SURFACE. LIMITED ISI DUE TO ACCESSIBILITY. SECT. XI REPAIR PLAN 2-0554.
MS-V-28B-BDY							
	VT-3	1MSV-095	ACC				NO RECORDABLE INDICATIONS. PSI OF MACHINED INTERNAL BORE. LIMITED ISI EXAM DUE ACCESSIBILITY SECT. XI REPAIR PLAN 2-0556.
MS-PB-102(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
26MS(1)C-3							
	VOL	1MSU-054	45				NO RECORDABLE INDICATIONS
	SUR	1MSM-023	ACC				NO RECORDABLE INDICATIONS
26MS(1)C-3LDI							
	VOL	1MSU-054	45				NO RECORDABLE INDICATIONS
	SUR	1MSM-023	ACC				NO RECORDABLE INDICATIONS
26MS(1)C-3LDO							
	VOL	1MSU-054	45				NO RECORDABLE INDICATIONS
	SUR	1MSM-023	ACC				NO RECORDABLE INDICATIONS
MS-HC-1(W)							
	SUR	1MSM-025	ACC				NO RECORDABLE INDICATIONS
MS-HC-1							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-SC-6							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-SC-7							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-SC-5							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-SC-8							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-HC-2							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 1
OUTAGE: R5
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 10/22/90

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-V-22C-BDY							
	VT-3	1MSV-096	ACC				PSI ON INTERNAL MACHINED SURFACES AND REPAIR GRINDOUTS. LIMITED ISI EXAM DUE TO ACCESS. SECT. XI REPAIR PLAN 2-0555.
MS-V-28C-BDY							
	VT-3	1MSV-094		ACC			PSI OF MACHINED INTERNAL SUFACES. ISI OF INTERNAL VALVE SURFACES. NUMEROUS ROUND IND. < 1/16" DIA. SECT. XI REPAIR PLAN 2-0557.
MS-PB-103(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
26MS(1)D-3							
	VOL	1MSU-053	45				NO RECORDABLE INDICATIONS
	SUR	1MSM-024	ACC				NO RECORDABLE INDICATIONS
26MS(1)D-3LDI							
	VOL	1MSU-053	45				NO RECORDABLE INDICATIONS
	SUR	1MSM-024	ACC				NO RECORDABLE INDICATIONS
26MS(1)D-3LDO							
	VOL	1MSU-053	45				NO RECORDABLE INDICATIONS
	SUR	1MSM-024	ACC				NO RECORDABLE INDICATIONS
26MS(1)D-4LUI							
	VOL	1MSU-053	45				NO RECORDABLE INDICATIONS
	SUR	1MSM-024	ACC				NO RECORDABLE INDICATIONS
26MS(1)D-4LUO							
	VOL	1MSU-053	45				NO RECORDABLE INDICATIONS
	SUR	1MSM-024	ACC				NO RECORDABLE INDICATIONS
26MS(1)D-4							
	VOL	1MSU-053	45				NO RECORDABLE INDICATIONS
	SUR	1MSM-024	ACC				NO RECORDABLE INDICATIONS
26MS(1)D-5							
	VOL	1MSU-055	45				FULL VOL. UT EXAM PERFORMED FROM DNST SIDE OF WELD TO ACHIEVE 100% OF WELD AND BASE METAL TO COMPENSATE FOR UPST SIDE BEING BLOCKED BY PWS 34-1.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
	SUR	1MSU-055				45 ACC	FULL VOL. UT EXAM OF WELD AND BASE METAL PERFORMED FROM DNST SIDE FOR COMPLETE VOL/SUR EXAM DUE TO UPST SIDE RESTRICTION BY PWS 34-1.
MS-HD-1(W)							
	SUR	1MSM-026	ACC				NO RECORDABLE INDICATIONS
MS-SD-6							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-SD-7							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-SD-5							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-SD-9							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-PB-104(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-260							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-1C-1PS							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-261							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-PB-105(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-106

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(12)-4
DESCRIPTION: MS RX VES HEAD VENT

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-PB-106(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-155	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-178	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-179	VT3H	1HV-0193	ACCEP				NO RECORDABLE INDICATIONS
MS-152	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-151	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-150	VT3H	1HV-0193	ACC				LOOSE LCKNUT ON E. STRUT TIGHTENED
MS-149	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-146	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-144	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-142	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-203

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-31	VT3H	1HV-0193	ACC				HANDTIGHT JAMB NUT ON WEST STRUT TIGHTENED.
MS-30	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-49	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-28	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-141	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
MS-24	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-204

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-55							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT +QC I SN
DESCRIPTION: MISC SNUBBERS

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-256							
	VT3H	1HV-0204	ACC				TOP SNUBBER DELETED, BOTTOM SNUBBER REPLACED WITH STRUT. SECT. XI PLAN 2-0552. PSI OF NEW STRUT.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RFW-148							
	VT3H	1HV-0211	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0591. PSI OF NEW STRUT.
24RFW(1)A-9							
	VOL	1FWU-080	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-008	ACC				NO RECORDABLE INDICATIONS
24RFW(1)A-12							
	VOL	1FWU-082	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-011	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AB-3							
	VOL	1FWU-086	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-013	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AA-1							
	VOL	1FWU-085	45				SCAN LIMITED ON DNST SIDE DUE TO ECC. RED. CONFIGURATION.
	SUR	1FWM-017	ACC				NO RECORDABLE INDICATIONS
RFW-152							
	VT3H	1HV-0196	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AA-3							
	VOL	1FWU-085	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-017	ACC				NO RECORDABLE INDICATIONS
RFW-151							
	VT3H	1HV-0198	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12RFW(1)AA-4							
	VOL	1FWU-085	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-012	ACC				NO RECORDABLE INDICATIONS
RFW-929N							
	VT3H	1HV-0197	ACC				NO RECORDABLE INDICATIONS
RFW-159							
	VT3H	1HV-0203	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AA-8							
	VOL	1FWU-098	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-021	ACC				NO RECORDABLE INDICATIONS
RFW-PB-101(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RFW-182							
	VT3H	1HV-0200	ACC				NO RECORDABLE INDICATIONS
RFW-164							
	VT3H	1HV-0212	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0591. PSI OF NEW STRUT.
24RFW(1)B-12							
	VOL	1FWU-083	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-015	ACC				NO RECORDABLE INDICATIONS
RFW-184							
	VT3H	1HV-0201	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BE-9							
	VOL	1RFU-079	44				NO RECORDABLE INDICATIONS
	SUR	1FWP-061	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BE-10							
	VOL	1RFU-078	44				NO RECORDABLE INDICATIONS
	SUR	1FWP-061	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BE-11							
	VOL	1FWU-077	44				SCAN LIMITED ON NOZZLE SIDE DUE TO CONFIGURATION.
	SUR	1FWP-061	ACC				NO RECORDABLE INDICATIONS
RFW-173							
	VT3H	1HV-0199	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BD-4							
	VOL	1FWU-084	45				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RFW-171	SUR	1FWM-014	ACC				NO RECORDABLE INDICATIONS
RFW-915N	VT3H	1HV-0195	ACC				NO RECORDABLE INDICATIONS
RFW-183	VT3H	1HV-0194	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BD-7	VT3H	1HV-0202		ACC			LOOSE CLAMP BOLT TIGHTENED. MED. RUST ON PIN AND TURNBUCKLES FROM DRYWELL COOLER MOISTURE DRIPPING ON COMPONENTS.
	VOL	1FWU-097	45				NO RECORDABLE INDICATIONS
12RFW(1)BD-8	SUR	1FWM-023	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-096	45				NO RECORDABLE INDICATIONS
RFW-PB-102(L)	SUR	1FWM-022	ACC				NO RECORDABLE INDICATIONS
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RFW-103

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RFW-177							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
6RFW(11)-4							
	VOL	1FWU-089	45				LIMITED SCAN ON PIPE-SIDE DUE TO WELDED LUGS.
	SUR	1FWM-019	ACC				NO RECORDABLE INDICATIONS
6RFW(11)-5							
	VOL	1FWU-089	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-019	ACC				NO RECORDABLE INDICATIONS
6RFW(11)-6							
	VOL	1FWU-087		45			TWO IND. AT 75% DAC.
	SUR	1FWM-019	ACC				NO RECORDABLE INDICATIONS
6RFW(11)-7							
	VOL	1FWU-088		45			TWO IND. AT 75% DAC.
	SUR	1FWM-019	ACC				NO RECORDABLE INDICATIONS
6RFW(11)-8							
	VOL	1FWU-089	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-019	ACC				NO RECORDABLE INDICATIONS
6RFW(11)-9							
	VOL	1FWU-089	45				NO RECORDABLE INDICATIONS
	SUR	1FWM-019	ACC				NO RECORDABLE INDICATIONS
6RFW(11)-10							
	VOL	1FWU-089	45				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RFW-103

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RFW(11)B-1	SUR	1FWM-019	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-090		45			ID GEOMETRY NOTED AT 60-75% DAC. NO EXAM ON UPST SIDE DUE REDUCER CONFIGURATION.
4RFW(11)B-1A	SUR	1FWM-020	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-091		45			ID GEOMETRY NOTED AT 70-110% DAC.
4RFW(11)B-2	SUR	1FWM-020	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-092		45			ID GEOMETRY NOTED AT 55-95% DAC.
4RFW(11)B-3	SUR	1FWM-020	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-093		45			ID GEOMETRY AND WELD TIE-IN NOTED AT 50-125% DAC.
RFW-181	SUR	1FWM-020	ACC				NO RECORDABLE INDICATIONS
4RFW(11)B-4	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-094		45			ID GEOMETRY NOTED AT 80% DAC.
4RFW(11)B-5	SUR	1FWM-020	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-095		45			ID GEOMETRY NOTED AT 80% DAC.

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RFW-103

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

DATE 10/22/90

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RFW-PB-103(L)	SUR	1FWM-020	ACC				NO RECORDABLE INDICATIONS
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-V-60A-BDY							
	VT-3	1RRV-020		ACC			BONNET OFF, BALL IN PLACE IN CLSED POS. MINOR SURFACE OXIDATION ON ALL INTERNAL SURFACES. SHINY SPOT NOTED ON BALL AND ON SEAT WHERE BALL HAD GONE PAST FULL-CLSED POS. AND "HUNG UP."
RRC-HA-9							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
16RRC(1)A-1/12RRC(1)-N2D							
	VOL	1RRU-139	45				LIMITED SCAN FROM SWEEPOLET SIDE DUE TO CONFIGURATION.
	SUR	1RRP-079	ACC				NO RECORDABLE INDICATIONS
RRC-SA-13							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RRC-SA-11							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
16RRC(1)A-1/12RRC(1)-N2E							
	VOL	1RRU-138	45, 59				LIMITED SCAN ON SWEEPOLET SIDE DUE TO CONFIGURATION.
	SUR	1RRP-077	ACC				NO RECORDABLE INDICATIONS
16RRC(1)A-3							
	VOL	1RRU-139	45				LIMITED SCANS ON CROSS SIDE DUE TO CONFIGURATION.
RRC-HA-8							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
16RRC(1)A-3/12RRC(1)-N2B							
	VOL	1RRU-139	45				LIMITED SCAN FROM FITTING SIDE DUE TO TEE CONFIGURATION.
	SUR	1RRP-081	ACC				NO RECORDABLE INDICATIONS
RRC-SA-12							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RRC-SA-14							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
16RRC(1)A-3/12RRC(1)-N2A							
	VOL	1RRU-138	45, 59				LIMITED SCANS ON SWEEPOLET SIDE DUE TO CONFIGURATION.
	SUR	1RRP-074	ACC				NO RECORDABLE INDICATIONS
16RRC(1)A-4							
	VOL	1RRU-138	45, 59				SCANS LIMITED ON CAP SIDE DUE TO CONFIGURATION.
12RRC(1)-N2A-1							
	VOL	1RRU-141	45				SCANNED FROM ONE SIDE USING 1-1/2V CALIBRATION.
	SUR	1RRP-076	ACC				NO RECORDABLE INDICATIONS
12RRC(1)-N2A-1LD							
	VOL	1RRU-141	45				SCANNED FROM ONE SIDE USING 1-1/2V CALIBRATION.
	SUR	1RRP-075	ACC				NO RECORDABLE INDICATIONS
12RRC(1)-N2A-3							
	VOL	1RRU-142		45, 58			ID GEOMETRY NOTED AT 100% DAC.

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12RRC(1)-N2B-3							
	VOL	1RRU-142		45, 58			ID GEOMETRY NOTED AT 100% DAC.
12RRC(1)-N2C-1							
	VOL	1RRU-140	45				ID GEOM. NOTED AT 70% DAC. SCANNED FROM ONE SIDE USING 1-1/2V CALIBRATION. NO SIGN OF IGSCC IN FRONT OF ID SIGNAL.
	SUR	1RRP-082	ACC				NO RECORDABLE INDICATIONS
12RRC(1)-N2C-1LD							
	VOL	1RRU-147	45, 58				NO RECORDABLE INDICATIONS
	SUR	1RRP-083	ACC				NO RECORDABLE INDICATIONS
12RRC(1)-N2C-1A							
	VOL	1RRU-140	45				ID GEOM. NOTED AT 70% DAC. NO SIGN OF IGSCC IN FRONT OF ID SIGNAL.
12RRC(1)-N2C-1ALD							
	VOL	1RRU-147	45, 58				NO RECORABLE INDICATIONS
12RRC(1)-N2C-3							
	VOL	1RRU-142		45, 58			ID GEOMETRY NOTED AT 100% DAC.
12RRC(1)-N2D-1							
	VOL	1RRU-147	45, 58				SCANNED ONLY FROM PIPE SIDE DUE TO CONFIGURATION OF SWEEPOLET.
	SUR	1RRP-078	ACC				NO RECORDABLE INDICATIONS
12RRC(1)-N2D-1LD							
	VOL	1RRU-147	45, 58				NO RECORDABLE INDICATIONS
	SUR	1RRP-080	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-101(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-102(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-103(L)	VT-2	1VT2-90	ACC				EXAM AREA IS COVERED ON DRAWINGS RRC-101 AND RRC-102

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RRC-104

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

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-104(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
20RRC(6)-2LU							
	VOL	1RRU-143	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-084	ACC				NO RECORDABLE INDICATIONS
20RRC(6)-2							
	VOL	1RRU-144		45			ID GEOMETRY NOTED AT 80% DAC.
	SUR	1RRP-085	ACC				NO RECORDABLE INDICATIONS
20RRC(6)-2LDI							
	VOL	1RRU-145	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-086	ACC				NO RECORDABLE INDICATIONS
20RRC(6)-2LDO							
	VOL	1RRU-146	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-087	ACC				NO RECORDABLE INDICATIONS
RRC-1							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RHR-SA-50							
	VT3H	1HV-0193		ACC			LIGHT CORROSION ON SPHERICAL BUSHING.
RRC-PB-105(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

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	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

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	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-108(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-109(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-110(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-111(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RWCU-1C-4PS(W)							
	SUR	1RTM-004	ACC				PIPE CLAMP SIDE OF WELDED LUG NOT MT EXAMINED DUE TO CONFIGURATON. 3 SIDES OF THE WELDED LUGS COULD BE MT EXAMINED. THIS IS ACCEPTABLE BECAUSE ONLY WELD LENGTH (SIDES PERP.TO CLAMP) IS REQUIRED.
RWCU-1C-4PS							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RWCU-1C-3(W)							
	SUR	1RTM-002	ACC				NO RECORDABLE INDICATIONS
RWCU-1C-3							
	VT3H	1HV-0193		ACC			LIGHT CORROSION ON SPHERICAL BUSHING.
RWCU-PB-101(L)							
	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
6RWCU(2)-5							
	VOL	1RTU-015	45				NO DNST AXIAL SCAN DUE TO FLANGE CONFIGURATION.
6RWCU(2)-6							
	VOL	1RTU-016		45			1 IND. AT 25% DAC. NO UPST AXIAL SCAN DUE TO FLANGE CONFIGURATION.
6RWCU(2)-7							
	VOL	1RTU-017	45				NO RECORDABLE INDICATIONS
4RWCU(2)-8							
	SUR	1RTM-003	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-170	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-172	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-237	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-238	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-239	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-57	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-58	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-919N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-59	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-60	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS. HGR BCX FRAME FOR VERT. PIPE IS PARA. TO & ABOUT 1" FROM CEILING SO A FEW SHOP WELDS ARE NOT ACCESSIBLE FOR EXAMINATION.
FPC-61	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-62	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-909N	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-908N	VT3H	1HV-0193		ACC			CLAMP, WHICH COULD BE ROTATED, WAS TIGHTENED.
FPC-908N(W)	VT-3	1FPV-010	ACC				NO RECORDABLE INDICATIONS
FPC-41	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-40	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-39							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. FPC-302

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(2)-1
DESCRIPTION: FPC-P-1A TO DM-1A&1B

DATE 10/22/90

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-208							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. FPC-303

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(2)-1
DESCRIPTION: FPC-P-1B TO DM-1A&1B

DATE 10/22/90

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-193	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-207	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-192	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-191	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-188	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-189	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. FPC-304

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(2)-1
DESCRIPTION: FPC-1A&1B DISCHARGE

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-102	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-103	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-104	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-105	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-106	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-107	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-108	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-109	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-110	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-111	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-113	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-92	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-91	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-77	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-76	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-75	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-74	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-73	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-72	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-71	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-68	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-304

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(18)-2-4
DESCRIPTION: MS-RV-4A DISCHARGE

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MSRV-4A-10							
	VT3H	1HV-0210	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI FOR NEW STRUT.
MSRV-4A-9							
	VT3H	1HV-0209	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI FOR NEW STRUT.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
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 10/22/90

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	1VT2-90	ACC				NO RECORDABLE INDICATIONS
SLC-4453-24							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-25A							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-26B							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-214							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-215							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-29							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-210							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-211							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-212							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-213							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-31							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
SLC-4453-32							
	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: ISI
PERIOD: 01
OUTAGE: R5
DRAWING NO. MISC

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT CSP(1)-1
DESCRIPTION: CONTMT PURGE AIR SUP

DATE 10/22/90

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
24CSP(1)-5							
	VOL	1CSU-00	45				NO RECORDABLE INDICATIONS

APPENDIX C

Repair/Replacement Listing
NIS-2 Owner's Reports

This appendix summarizes all ASME Section XI repairs/replacements completed between June 27, 1989 and October 19, 1990. Also contained in Appendix C are NIS-2 forms, not previously submitted, for work completed prior to June 26, 1989. For each repair/replacement, the status of the NIS-2 Owner's Report is stated. For repairs and replacements undergoing review, a brief summary of the work performed is provided in place of the NIS-2 Owner's Report. After the review is complete, NIS-2 Owner's Reports will be issued and will be included with the next ISI Summary Report.

APPENDIX C

ASME SECTION XI REPAIR/REPLACEMENT LISTING FOR WNP-2

PLAN or NVR NO.	COMPONENT IDENT. NO. and/or WORK DESCRIPTION	COMPONENT DESCRIPTION	REPAIR/REPLACEMENT REPORTED IN SUMMARY REPORT
2-0354	SLC System Modification	Piping	RF90A Summary Report
2-0354R1	SLC System Repair	Piping	RF90A Summary Report
2-0449	PIPE CAP 3/4 MS (55)-5	Piping	RF90A Summary Report
2-0450	CLOSURE PLATE FOR RWCU-P-1A, B	Pumps	RF90A Summary Report
2-0451	MS-RV-1C	Relief Valve	RF90A Summary Report
2-0471	REPAIR WELD MS-529-13	Piping	RF90A Summary Report Hydro deferred
2-0475	CAP DRAIN LINES MS-529-13, MS-530-12	Piping	RF90A Summary Report Hydro deferred
2-0477	DRAIN LINE NEAR GSP-V-5, 7	Piping	RF90A Summary Report
2-0484	MS-RV-5C REPLACE BOLT	Relief Valve	RF90A Summary Report
2-0489	REPLACE DISC/NOZZLE IN SPARE MSRV	Relief Valve	RF90A Summary Report
2-0490	MS-RV-1B DISC/NOZZLE	Relief Valve	RF90A Summary Report
2-0491	MS-RV-2B DISC/NOZZLE	Relief Valve	RF90A Summary Report
2-0492	MS-RV-2D DISC/NOZZLE	Relief Valve	RF90A Summary Report
2-0493	MS-RV-3A DISC/NOZZLE	Relief Valve	RF90A Summary Report
2-0494	MS-RV-4A DISC/NOZZLE	Relief Valve	RF90A Summary Report
2-0495	MS-RV-4C DISC/NOZZLE	Relief Valve	RF90A Summary Report
2-0498	MAIN STEAM DRAIN LINES MS-529-13, MS-530-12	Piping	RF90A Summary Report
2-0503	PSR-V-177A/1 and PSR-V-177A/2	Valves	RF90A Summary Report
2-0506	Modify drain line RHR-V-161B and 162B	Piping	RF90A Summary Report
2-0509	RHR-745-1.2 and RHR-FB-12	Piping	RF90A Summary Report
2-0512	CIA-V-31B	Valve	RF90A Summary Report
2-0513	RCIC-V-45	Valve	RF90A Summary Report
2-0514	Blind flange in place of CIA-FLX	Piping	RF90A Summary Report
2-0518	DCW-HX-1A2	Heat exchanger	RF90A Summary Report
2-0520	Support for PSR-V-177A/2	Support	RF90A Summary Report
2-0523-1	Spacer ring for SW-V-214	Piping	RF90A Summary Report
2-0523-2	Spacer ring for SW-V-215	Piping	RF90A Summary Report
2-0524-1	Spacer ring for SW-V-216	Piping	RF90A Summary Report
2-0524-2	Spacer ring for SW-V-217	Piping	RF90A Summary Report
2-0525	Fabricate and replace plug MS-TK-2C	Tank	RF90A Summary Report
2-0526	Support for PI(1)-4S-182d	Tubing	RF90A Summary Report
2-0529	PS-VX-265 and support	Valve and support	RF90A Summary Report
2-0530	CIA-V-60A	Valve	RF90A Summary Report
2-0533	Replace Cap screws for inst. support	Support	RF90A Summary Report
2-0535	HPCS-RV-14 spring steps	Relief valve	Work Completed MIS-2 Not Issued
2-0536	LPCS-RV-31 spring steps	Relief valve	RF90A Summary Report
2-0537	Install flex hose RHR-FLX-2A	Piping	RF90A Summary Report
2-0538	Install flex hose RHR-FLX-2B	Piping	RF90A Summary Report
2-0539	Install flex hose RHR-FLX-2C	Piping	RF90A Summary Report
2-0540	Inst. flanges for CIA supply lines to MSRV	Piping	RF90A Summary Report
2-0541	Replace bolting for SDR-TK-4A	Tank	RF90A Summary Report
2-0542	Replace boltig for SDR-TK-4B	Tank	RF90A Summary Report
2-0543	Replace bolting for FDR-TK-9	Tank	RF90A Summary Report
2-0544	HPCS-V-6	Valve	RF90A Summary Report
2-0545	Replace RCIC-V-39	Valve	RF90A Summary Report
2-0546	RCIC-T-3 and RCIC-T-4	Piping	RF90A Summary Report
2-0547	Support for RRC-P-1A seal staging piping	Piping	RF90A Summary Report

APPENDIX C
ASME SECTION XI REPAIR/REPLACEMENT LISTING FOR WNP-2

PLAN or NNR NO.	COMPONENT IDENT. NO. and/or WORK DESCRIPTION	COMPONENT DESCRIPTION	REPAIR/REPLACEMENT REPORTED IN SUMMARY REPORT
2-0548	Support for RRC-P-1B seal staging piping	Piping	RF90A Summary Report
2-0551	Lap joint flange for RHR-V-30	Piping	RF90A Summary Report
2-0552	Replace Snubbers with rigid strut	Supports	RF90A Summary Report
2-0553	RHR-RV-30 and RHR(1)-1	Relief valve and Piping	RF90A Summary Report
2-0554	MS-V-22B	Valve	RF90A Summary Report
2-0555	MS-V-22C	Valve	RF90A Summary Report
2-0556	MS-V-28B	Valve	RF90A Summary Report
2-0557	MS-V-28C	Valve	RF90A Summary Report
2-0562	Replace MS-RV-1D	Piping	RF90A Summary Report
2-0563	Replace MS-RV-3D	Piping	RF90A Summary Report
2-0564	MS-RV-1A disc/nozzle	Relief Valve	RF90A Summary Report
2-0565	MS-RV-2A disc/nozzle	Relief Valve	RF90A Summary Report
2-0566	MS-RV-3B disc/nozzle	Relief Valve	RF90A Summary Report
2-0567	MS-RV-3C disc/nozzle	Relief Valve	RF90A Summary Report
2-0568	MS-RV-4B disc/nozzle	Relief Valve	RF90A Summary Report
2-0569	MS-RV-5B disc/nozzle	Relief Valve	RF90A Summary Report
2-0570	SLC-V-4B	Valve	RF90A Summary Report
2-0573	Install nipple for FPC-V-603	Piping	RF90A Summary Report
2-0574	Replace Mech seal for RRC-P-1A	Pump	RF90A Summary Report
2-0576	Replace nuts for RHR-V-24A	Valve	RF90A Summary Report
2-0577	Replace nuts for RHR-V-24B	Valve	RF90A Summary Report
2-0578	Replace CIA-V-21	Piping	RF90A Summary Report
2-0579	Replace CIA-V-31A	Piping	RF90A Summary Report
2-0580	Replace CIA-V-31B	Piping	RF90A Summary Report
2-0581	Replace CIA-V-41A	Piping	RF90A Summary Report
2-0582	Replace CIA-V-41B	Piping	RF90A Summary Report
2-0583	PSR-V-X77A/1	Valve	RF90A Summary Report
2-0584	PSR-V-X77A/2	Valve	RF90A Summary Report
2-0585	PSR-V-X77A/3	Valve	RF90A Summary Report
2-0586	PSR-V-X77A/4	Valve	RF90A Summary Report
2-0587	PI-V-X265	Valve	RF90A Summary Report
2-0590	HPCS-V-23	Valve	RF90A Summary Report
2-0591	Replace Snubbers with rigid struts	Supports	RF90A Summary Report
2-0592	RHR-HX-2B Seal cooler piping	Heat exchanger	RF90A Summary Report
2-0593	PI(1)-4S-X72f and PI-5FC-X72f	Tubing/ valve	RF90A Summary Report
2-0594	RHR-HX-1B	Heat Exchanger	RF90A Summary Report
2-0595	Replace stem/disc for HPCS-V-84	Valve	RF90A Summary Report
2-0596	RWCU-V-1 leak off conn seal weld	Valve	RF90A Summary Report
2-0597	RHR-V-24B replace leak off conn pipe plug	Valve	RF90A Summary Report
2-0598	MS-RV-3A disc/nozzle	Relief Valve	York Completed NIS-2 Not Issued
2-0599	Replace studs nuts for flange joint for CIA-FLX-1E	Piping	RF90A Summary Report
2-0600	Replace studs nuts for flange joint for CSP-V-2	Piping	RF90A Summary Report
2-0604	Debris screen for X-53	Piping	RF90A Summary Report
2-0605	Remove and cap pressure transducer MS-530-11C line	Piping	RF90A Summary Report
2-0606	Studs and nuts for LPCS-RV-31	Piping	York Completed NIS-2 Not Issued
2-0607	CRD-V-102	Valve	RF90A Summary Report
2-0608	MS-V-120A	Valve	RF90A Summary Report
2-0609	CRD-V-101	Valve	RF90A Summary Report

APPENDIX C
ASME SECTION XI REPAIR/REPLACEMENT LISTING FOR VNP-2

PLAN or NWR NO.	COMPONENT IDENT. NO. and/or WORK DESCRIPTION	COMPONENT DESCRIPTION	REPAIR/REPLACEMENT REPORTED IN SUMMARY REPORT
2-0610	Install blind flange in place of 2HR-2V-1B	Piping	RF90A Summary Report
2-0611	Install blind flange in place of RHR-2V-25B	Piping	RF90A Summary Report
2-0612	Install blind flange in place of 2HR-2V-68B	Piping	RF90A Summary Report
2-0613	RRC connections to RRC-V-50A	Piping	RF90A Summary Report
2-0614	PI(1)-4S-I75d & PI-RFC-I75d	Tubing/Piping	RF90A Summary Report
2-0615	Cracked pipe in RCIC line for dPIS 7B E31-N007	Piping	RF90A Summary Report
2-0622	Pipe cap for MS-TK-3U	Tank	RF90A Summary Report
2-0624	CIA-FLX-1C	Flex hose	RF90A Summary Report
2-0625	CSP-V-96	Valve	RF90A Summary Report
2-0626	RWCU-V-229B	Valve	RF90A Summary Report
2-0627	Install blind flange in place of RWCU-2V-2	Piping	RF90A Summary Report
AS-2789/AS-2790	Deleted Snubbers	Supports	RF90A Summary Report
AS 2790	Deleted Snubbers	Supports	RF90A Summary Report
AS 2893	RPV	CRD	RF90A Summary Report
AS 2905	RPV	CRD	RF90A Summary Report
AS 2907	RPV	CRD	RF90A Summary Report
AS 2908	RPV	CRD	RF90A Summary Report
AS 2910	RPV	CRD	RF90A Summary Report
AS 2913	RPV	CRD	RF90A Summary Report
AS 2914	RPV	CRD	RF90A Summary Report
AS 2917	RPV	CRD	RF90A Summary Report
AS 2919	RPV	CRD	RF90A Summary Report
AS 2920	RPV	CRD	RF90A Summary Report
AS 2924	RPV	CRD	RF90A Summary Report
AS 2925	RPV	CRD	RF90A Summary Report
AS 2926	RPV	CRD	RF90A Summary Report
AS 2930	RPV	CRD	RF90A Summary Report
AS 4972	Deleted Snubbers	Supports	RF90A Summary Report
AS 5339	RPV	CRD	RF90A Summary Report
AT 8898	Deleted Snubbers	Supports	RF90A Summary Report
BDC-55-1042-01	Changed Equipment Piece Numbers	Valves	RF90A Summary Report
BDC-88-0254-1B	Deleted Hanger	Support	RF90A Summary Report

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO.2-0354 AND 2-0354R1

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

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

Date: 10/15/90
Sheet: 1 of 1
Unit: WNP-2

3.(a)Work Performed by:Bechtel Construction, Inc.,PO Box 600, Richland, WA and WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: C20069 and WPPSS
4. Identification of System: Standby Liquid Control (SLC) and High Pressure Core Spray (HPCS) Systems
5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements:1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SLC(2)-4S	WPPSS	SLC(2)-4S-P2	N/A	N/A	1982	Replacement	Yes, Code Class 1
HPCS(1)-4CL1	WPPSS	HPCS(1)-4CL1	N/A	N/A	1983	Replacement	Yes, Code Class 1

7. Description of Work: A) Plan No 2-0354 - Work performed by Bechtel Construction, Inc.
Modified Standby Liquid Control (SLC) System. The modification work was performed as follows:

1) Cut and removed section of existing piping
2) Performed PT examination on the prepped pipe, fitting and valve ends. PT examination results acceptable
3) Installed new pipe, fitting material and valves
4) Made required socket and butt welds
5) Performed PT examination on the final socket and butt welds and RT examination on the final butt weld. PT and RT examination results acceptable
6) Installed pipe cap on the spared line and made socket weld
7) Performed PT examination on the final socket weld. PT examination results acceptable
8) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

Note - ASME Code Class 2 carbon steel pipe piece was installed in lieu of Code Class 1. This pipe piece was upgraded to Code Class 1 under Plan No 2-0354R1

B) Plan No 2-0354R1 - Work performed by WPPSS

Upgraded carbon steel pipe piece between welds XI-13A and XI-19-1. The upgrading work was performed as follows:

1) Cut weld between the carbon steel pipe piece and the sockolet
2) Performed PT examination on the prepped sockolet socket end. PT examination results acceptable
3) Performed RT examination on the carbon steel pipe piece to upgrade the pipe piece to Code Class 1. RT examination results acceptable
4) Made carbon steel pipe piece to sockolet socket weld
5) Performed PT examination on the final socket weld. PT examination results acceptable
6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0354 AND 2-0354R1

FORM NIS-2 (Back)

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

Test Pressure: 1130,1280 and 1300 Psig — Test Temperature: 80,78 and 83 °F

Component Design Pressure: 1250 and 1400 Psig — Temperature: 575 and 150 °F

9. Remarks: See attached NPV-1 Code Data Reports for the following valves:

> SLC-V-42, Serial No 79092
> SLC-V-43, Serial No 79113

> Spared SLC line test pressure at 1130 psig and test temperature at 80 F, Plan No 2-0354
> New SLC line test pressure at 1280 psig and test temperature at 78 F, Plan No 2-0354
> Upgraded SLC line test pressure at 1300 psig and test temperature at 83 F, Plan No 2-0354R1

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Cindy Zuck — Signed by [signature] Plant Technical Manager

Date 10/15/90 — Date 15 OCT 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/22/87 to 10/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 10/15/90

968-22684 (9/87)

ALAN NO. 2-0354

BOOK # OH856

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 Johnson Controls, Inc. P.O. Box 429, Richland, Washington 99352
(Name and Address of Purchaser or Owner)

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

4. Pump or Valve Globe Valve. Nominal Inlet Size 1 (inch) Outlet Size 1 (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#	79113	N/A	106DCA1-004	1	N/A	1982
(2)							
(3)							
(4)			S/N 79113				
(5)							
(6)							
(7)				1/14/87			
(8)							
(9)			SLC-V-43, S/N 79113				
(10)				Vuldup Gupb 9/15/87.			

5. The valvas 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 4W69	Colmonoy #4	Rex Precision	
(b) Forgings			
Body-Code 2E98	SA182 F316	Kawaguchi	
Bonnet-Code 1X15	SA182 F316	Crucible/Ducommun	

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

S/N 79113

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts N/A			

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 Winter '75 (Date), Code Case No. N/A.

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

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

CERTIFICATION OF DESIGN

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

Stress analysis report (Class 1 only) on file at NVD of Borg Warner, 7500 Tyrone Avenue Van Nuys, CA 91409

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

PE State Wash. Reg. No. 13579

Stress analysis certified by (1) David Wurangian

PE State CA Reg. No. 19547

(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 12/14 1982, 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 12/14 1982

(Inspector) Commissions 1275 Ca.

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

FOR INFORMATION ONLY

PLAN NO. 2-0354

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

BOOK # 0 H8 38

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

2. Manufactured for Johnson Controls, Inc. P.O. Box 429, Richland, Washington 99352
(Name and Address of Purchaser or Owner)

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

4. Pump or Valve Globe Valve, Nominal Inlet Size 1 (inch) Outlet Size 1 (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#	79089 thru 79112	N/A	106DCA1-004	1	N/A	1982
(2)							
(3)							
(4)		S/N 79092					
(5)				V Gupb			
(6)							
(7)				7/14/87			
(8)		SLC-V-42 S/N 79092					
(9)				Rudolp Gupb			
(10)				9/10/87.			

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 1500 (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 4W69	Colmonoy #4	Rex Precision	
(b) Forgings			
Body-Code 1X85	SA 182 F316	Pacific Forge	
2E98	SA 182 F316	Kawaguchi	
Bonner-Code 1X15	SA 182 F316	Crucible	

(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)

S/N 79092

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts: N/A			

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 Winter '75 (Date), Code Case No. N/A Date 11/29/82

Signed Nuclear Valve Div., Borg Warner (N Certificate Holder)

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

CERTIFICATION OF DESIGN

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

Stress analysis report (Class 1 only) on file at NVD, Borg Warner Corp., 7500 Tyrone Ave. Van Nuys, CA.

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

PE State Wash. Reg. No. 13579

Stress analysis certified by (1) David Wurangian

PE State CA Reg. No. 19547

(1) Signature not required. List name only.

FOR INFORMATION ONLY

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 11/30 19 82, 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 11/30 19 82 Commissions 1275 CA.

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0449

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner (Name) Washington Public Power Supply System — Date 10/26/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) — Unit WNP-2
   Plant (Address) Hanford, Benton County, WA — C20069 Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) Bechtel Construction, Inc.
   Work Performed by (Address) PO Box 600, Richland, WA
4. Identification of System Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, None Code Case
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, Winter 80 Addenda, N308 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components

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

7. Description of Work:

Replaced pipe cap on 3/4" MS (55)-4 drain line.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0449

FORM NIS-2 (Back)

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

9. Remarks: None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [signature] Owner or Owner's Designee, Title Plant Technical Manager

10/25/89.

Date 10-25 19 89

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 7/7/88 to 10/26/89, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature Commissions 7447-W National Board, State, and Endorsements

Date 26 OCTOBER 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0450

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) — Date: 5/29/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3. (a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Reactor Water Clean Up (RWCU) System
5. (a) Applicable Construction Code ASME Section III: 1983 Edition with Winter 1984 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RWCU-P-1B	HTL	U12A86866	8	N/A	1987	Replacement	Yes, Code Class 3

7. Description of Work: Installed closure plate on RWCU-P-1B. The installation work was performed as follows
   1) Machined closure plate
   2) Installed pipe and valves on the closure plate
   3) Made required welds
   4) Installed the closure plate

   Note: The installation of the closure plate on the pump casing was considered to be an interim configuration of the pump till the pump motor/motor casing was fixed. Upon completion of the repair work on the pump motor/motor casing, the closure plate was removed and pump motor/motor casing was reinstalled

HTL - Hayward Tyler Limited

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0450

FORM NIS-2 (Back)

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

Test Pressure: Psig Test Temperature: °F

Component Design Pressure: Psig Temperature: °F

9. Remarks: See attached NPV-1 Code Data Report for Serial Numbers 20976 and 20977

Note: Pressure test on the closure plate bolted joint was not required since the closure plate was used for personal protection. Valves RWCU-V-5B and RWCU-V-13B were tagged locked closed and the system between these two (2) valves including the closure plate bolted joint was declared inoperable.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulidip Singh Signed by [signature]

Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 7/29/88 to 7/5/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

Inspector's Signature National Board, State, and Endorsements

Date 7/5/90

968-22684 (9/87)

Plan No. 2-0450
Building Supt
5/21/90.

0B144

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

As Required by the Provisions of the ASME Code Rules WBGBR 215 12424

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. 215-3261
(Name and Address)

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352 Serial Numbers 20976 & 20977.

5. Pump or Valve Identification Nuclear Valve Div., P/N 76700-6, 1 Inch Gate Valve, CS

Serial Numbers 20974 thru 20977 (4 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 1P14	SA487 CA 6NM		
Casting - 75347		Rex Precision	
Machined- 75346		NV Division	
(b) Forgings			
Body - Code 1J60	SA 105		
Forging - 70453		Pacific Forge	
Machined - 70476		NV Division	
Assembly - 75348		NV Division	
Bonnet - Code 1M28	SA 105		
Forged Stock		Compton Forge	
Machined - 73973-11		NV Division	

INFORMATION ONLY

INFORMATION ONLY

2

* 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

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
5 (c) Bolting			
(d) Other Parts			
Stem - Code 1M35	SA564 Ty.630		
Bar Stock		Jorgensen Steel	
Machined - 75323		NV Division	

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 January 25 19 77 Signed Nuclear Valve Div. of Borg Warner (Manufacturer) By R V Palmer

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 January 25 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 25 19 77

[illegible] (Inspector) Commissions California (National Board, State, Province and No.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0451

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-1C	Crosby Valve and Gage Co	N63790-00-0046	N/A	N/A	1981	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0451

FORM NIS-2 (Back)

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

Test Pressure: 964 Psig — Test Temperature: Saturated °F

*Component Design Pressure: 1150 Psig — Temperature: 575 °F

9. Remarks: None

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dwdip Singh — Signed by [signature] Plant Technical Manager

Date 6/28/90 — Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 8/26/88 to 6/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0471

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/21/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308 and N-416
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(1)-4B	WPPSS	MS(1)-4B-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced pipe piece between the sockolet and valve MS-V-239. The pipe was replaced due to failed (cracked) weld. The replacement work was performed as follows:
   1) Cut and removed existing pipe piece
   2) Installed new replacement pipe piece
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable. This NDE examination satisfied both ASME Section III, Code Class 2 and Code Case N-416 requirements
   5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0471

FORM NIS-2 (Back)

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

Test Pressure: 982 Psig — Test Temperature: 544 °F

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

9. Remarks: Visual examination (VT-2) for leakage at nominal operating pressure and temperature was performed in lieu of the required hydrostatic test as permitted by Code Case N-416. The required hydrostatic test will be performed at the end of first ISI inspection interval and the results of the test will be documented in the Inservice Inspection (ISI) Summary Report

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pradip Gupta — Signed by [signature] Plant Technical Manager

Date 8/22/90 — Date 8-22-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 10-28-88 to 8-22-90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 8-22-90.

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0475

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/21/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3. (a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308 and N-416
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(1)-4B	WPPSS	MS(1)-4B-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2
MS(1)-4C	WPPSS	MS(1)-4C-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Removed 3/4" drain line with valves MS-V-119C/MS-V-238C and 2" drain line with valves MS-V-239/MS-V-238B. Installed pipe caps in place of the drain lines. The replacement work for both the drain lines was performed as follows:
   1) Cut and removed both the drain lines
   2) Installed new replacement pipe for 3/4" drain line and new replacement pipe caps for both the drain lines
   3) Made required socket welds
   4) Performed MT or PT examination on the final socket welds. MT/PT examination results acceptable. This NDE examination satisfied both ASME Section III, Code Class 2 and Code Case N-416 requirements
   5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

Note: Capped drain lines were considered as interim design configuration. Both the drain lines were reinstalled under ASME Section XI Plan No 2-0498

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0475

FORM NIS-2 (Back)

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

Test Pressure: 1005 Psig — Test Temperature: 535 °F

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

9. Remarks: Visual examination (VT-2) for leakage at nominal operating pressure and temperature was performed in lieu of the required hydrostatic test as permitted by Code Case N-416. The required hydrostatic test will be performed at the end of first ISI inspection interval and the results of the test will be documented in the Inservice Inspection (ISI) Summary Report

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pradip Singh — Signed by [signature] Plant Technical Manager

Date 8/22/90 — Date 8-22-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 12-2-88 to 8-22-90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8-22-90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0477

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner (Name) Washington Public Power Supply System — Date 9/22/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) — Unit WNP-2
   Plant (Address) Hanford, Benton County, WA — WPPSS Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 George Washington Way, Richland, WA
4. Identification of System Containment Supply Purge (CSP) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, None Code Case
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, Winter 80 Addenda, N308 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CSP(1)-1B	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work:

Reinstalled drain line. The reinstallation work was performed as follows:

1. Reinstalled drain line.
2. Made required socket weld.
3. Performed MT examination on the final socket weld. MT examination results acceptable.

*CSP(1)-1B-P1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0477

FORM NIS-2 (Back)

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

9. Remarks:

None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [signature] (Owner or Owner's Designee,) Title Plant Technical Manager

L Smith 9/19/89

Date Sept. 22 19 89

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 12-5-88 to 9-18-89, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Don Heggard (Inspector's Signature) Commissions 9556 W (National Board, State, and Endorsements)

Date 9/22 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0484

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/3/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(18)-2-5	WPPSS	MS(18)-2-5-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description of Work: Replaced bolt for relief valve MS-RV-5C discharge flanged joint

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0484

FORM NIS-2 (Back)

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

Test Pressure: Psig . Test Temperature: °F

Component Design Pressure: Psig Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dulcie Smith Signed by [signature]

Plant Technical Manager

Date 6/3/90. Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/4/89 to 1/15/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dan Hoggatt Commissions 9556 W

Inspector's Signature National Board, State, and Endorsements

Date 6/4/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0489

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner (Name) Washington Public Power Supply System — Date 10/13/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) — Unit WNP-2
   Plant (Address) Hanford, Benton County, WA — WPPSS (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 George Washington Way, Richland, WA
4. Identification of System Spare Main Steam Relief Valve
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, None Addenda, None Code Case
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, Winter 80 Addenda, N308 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
Spare Main Steam Relief Valve	CV&G	*	N/A	N/A	1981	Replacement	Yes, Class 1

7. Description of Work:

Replaced disc insert and nozzle in spare main steam relief valve, S/N N63790-00-0122. The replacement work was performed as follows:

1) Removed existing disc insert and nozzle from spare main steam relief valve.
2) Installed new disc insert and nozzle in spare main steam relief valve.

N
CV&G - Crosby Valve and Gage Company
* - Serial No. N63790-00-0122

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0489

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ *

Test Pressure _____ psig, Test Temp. _____ °F

Component Design Pressure _____ psig, Temp. _____ °F

9. Remarks:

*Pressure test will be performed when the spare main steam relief valve is installed in the system.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable Expiration Date: Not applicable

Signed: [signature] (Owner or Owner's Designee) Title: Plant Technical Manager

K Smith 10/11/89

Date: 10-13 19 89

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 3/13/89 to 10/13/89, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions: 7447W - B.N.I (National Board, State, and Endorsements)

Date: OCTOBER 13 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0490

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) — Date: 5/29/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3. (a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-1B	Crosby Valve and Gage Co	N63790-00-0045	N/A	N/A	1981	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0490

FORM NIS-2 (Back)

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

Test Pressure: 6.66 Psig ..Test Temperature: 80.1 °F

*Component Design Pressure: 1150 Psig Temperature: 575 °F

9. Remarks: None

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulidip Gupta Signed by [signature]

Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/89 to 3/13/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

Inspector's Signature National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0491

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

Date: 5/29/90
Sheet: 1 of 1
Unit: WNP-2

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-2B	Crosby Valve and Gage Co	N63790-00-0049	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0491

FORM NIS-2 (Back)

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

Test Pressure: 6.65 Psig Test Temperature: 76 °F

*Component Design Pressure: 1175 Psig Temperature: 575 °F

9. Remarks: None

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Philip Eaib Signed by [signature] Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/89 to 3/13/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature Commissions 9556 W National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0492

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/29/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-2D	Crosby Valve and Gage Co	N63790-00-0052	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0492

FORM NIS-2 (Back)

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

Test Pressure: 6.65 Psig Test Temperature: 77.8 °F

*Component Design Pressure: 1185 Psig Temperature: 575 °F

9. Remarks: None

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulidip Gupta Signed by [signature]

Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/89 to 3/13/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

Inspector's Signature National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0493

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/29/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-3A	Crosby Valve and Gage Co	N63790-00-0055	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0493

FORM NIS-2 (Back)

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

Test Pressure: 6.75 Psig ...Test Temperature: 76.2 °F

*Component Design Pressure: 1195 Psig Temperature: 575 °F

9. Remarks: None

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Eugh Signed by [signature]

Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/89 to 3/13/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

Inspector's Signature National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0494

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/29/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-4A	Crosby Valve and Gage Co	N63790-00-0059	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0494

FORM NIS-2 (Back)

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

Test Pressure: 6.80 Psig Test Temperature: 75.3 °F

*Component Design Pressure: 1205 Psig Temperature: 575 °F

9. Remarks: None

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Curtis Engle Signed by [signature]

Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/89 to 5/30/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

Inspector's Signature National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0495

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/29/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-4C	Crosby Valve and Gage Co	N63790-00-0058	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0495

FORM NIS-2 (Back)

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

Test Pressure: 6.7 Psig — Test Temperature: 75.3 °F

*Component Design Pressure: 1195 Psig — Temperature: 575 °F

9. Remarks: None

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/25/89 to 5/30/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] 5/30/90 Commissions 9556 W
Inspector's Signature — National Board, State, and Endorsements

Date

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0498

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/21/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308 and N-416
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(1)-4B	WPPSS	MS(1)-4B-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2
MS(1)-4C	WPPSS	MS(1)-4C-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: The 3/4" drain line with valves MS-V-119C/MS-V-238C and 2" drain line with valves MS-V-239/MS-V-238B removed under ASME Section XI Plan No 2-0475 were reinstalled under this plan. The reinstallation work for both the drain lines was performed as follows:
   1) Cut and removed the existing pipe pieces with the pipe caps from the sockolets for both the drain lines
   2) Cut and removed the existing pipe pieces between the valves for both the drain lines
   3) Installed new replacement pipe pieces and the existing valves previously removed for both the drain lines
   4) Made required socket welds
   5) Performed MT or PT examination on the final socket welds. MT/PT examination results acceptable. This NDE examination satisfied both ASME Section III, Code Class 2 and Code Case N-416 requirements
   6) Fabricate and installed new pipe supports for both the drain lines
   7) Made required welds for the new supports
   8) Performed MT or PT examination on the final welds. MT/PT examination results acceptable
   9) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0498

FORM NIS-2 (Back)

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

Test Pressure: 950 Psig — Test Temperature: 530 °F

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

9. Remarks: Visual examination (VT-2) for leakage at nominal operating pressure and temperature was performed in lieu of the required hydrostatic test as permitted by Code Case N-416. The required hydrostatic test will be performed at the end of first ISI inspection interval and the results of the test will be documented in the Inservice Inspection (ISI) Summary Report

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulidip Gupta — Signed by [signature] Plant Technical Manager

Date 8/22/90 — Date 8-22-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5-4-89 to 8-22-90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8-22-90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0503

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/28/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Sample Radioactive (PSR) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-X77A/1	Target Rock	1	N/A	N/A	1982	Repair	Yes, Code Class 1
PSR-V-X77A/2	Target Rock	4	N/A	N/A	1982	Repair	Yes, Code Class 1

7. Description of Work: Repaired 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 for troubleshooting
   3) Reinstalled 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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0503

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pradip Gupta — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/15/89 to 12/6/89 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0506

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(1)-4B1	WPPSS	RHR(1)-4B1-P1	N/A	N/A	1983	Repair	Yes, Code Class 1

7. Description of Work: Test connection with valves RHR-V-161B and RHR-V-162B was repaired (modified). The work was performed as follows

1) Beveled new replacement sockolet end and existing valve socket end for butt welding
2) Performed PT examination on the beveled ends and also performed PT examination on the accessible surfaces of the sockolet to upgrade the sockolet from ASME Code Class 2 to ASME Code Class 1. PT examination results acceptable
3) Installed new replacement sockolet and the test connection assembly. Made required socket welds and circumferential butt weld
4)Performed PT examination on the final socket welds and PT and RT examination on the final circumferential butt weld. PT and RT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0506

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Gipb — Signed by [signature] Plant Technical Manager

Date 6/12/90. — Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/18/89 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/12/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0509

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/28/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removable (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
Rhr(1)-2B	WPPSS	RHR(1)-2B-P1	N/A	N/A	1982	Replacement	Yes, Code Class 2

7. Description of Work: Removed flow element RHR-FE-12 and replaced it with pancake blind flange. Pancake blind flange was installed to support work on valve RHR-V-23 with RHR loop B in service . Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

   Note: Upon completion of work on valve RHR-V-23 flow element RHR-FE-12 was reinstalled

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0509

FORM NIS-2 (Back)

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

Test Pressure: 218 Psig — Test Temperature: 68 °F

Component Design Pressure: 500 Psig — Temperature: 480 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pradip Gupta — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-23-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/13/89 to 4/23/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0512

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/28/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Summer 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA-V-31B	Borg Warner	25883	N/A	N/A	1978	Repair	Yes, Code Class 2

7. Description of Work: Repaired valve CIA-V-31B. The repair work was performed as follows
   1) Cut body to bonnet seal weld
   2) Removed valve internals for troubleshooting
   3) Reinstalled 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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0512

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/27/89 to 1/15/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W
Inspector's Signature — National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0513

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Reactor Core Isolation Cooling (RCIC) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1972 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RCIC-V-45	Anchor Darling	2N-368	N/A	N/A	1975	Replacement	Yes, Code Class 2

7. Description of Work: Replaced disc for valve RCIC-V-45. The replacement work was performed as follows:
   1) Removed existing disc from the valve
   2) Assembled new replacement disc, disc nut, stem retaining ring and stem
   3) Tack welded the disc to the disc nut
   4) Performed PT examination on the final welds. PT examination results acceptable
   5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0513

FORM NIS-2 (Back)

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

Test Pressure: 1005 Psig — Test Temperature: 540 °F

Component Design Pressure: 2160 Psig — Temperature: 100 °F

9. Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 18

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dulaip Gupta — Signed by [signature] Plant Technical Manager

Date 6/25/90 — Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/31/89 to 6/25/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

PLAN NO. 2-0513
Rudip Sup's 6/22/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Washington Public Power Supply System, P.O. Box 968, Richland, WA 99352-0968
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N 18 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D11903 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat No. 8099490 SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. N/A Class 1

3. Remarks: 4"-900#-Globe
(Brief description of service for which component was designed)
A/DV Shop Order P-F407-2

Note: No Disc Hydro Performed

INFORMATION ONLY

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

5/26 19 89 Signed Anchor/Darling Valve Co. By R L Stannert
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/92 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at _____

Stress analysis report on file at _____

Design specifications certified by _____ Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by _____ Prof. Eng. State _____ Reg. No. _____

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~Province of~~ Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 5-12-99 thru 5-26-99 19__, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 5-26 19 99

Charles Young
Charles Young

Commissions Pennsylvania 2392
National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-2 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".

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0514

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/5/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced damaged flex hose CIA-FLX-1C and installed blind flanges in place. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0514

FORM NIS-2 (Back)

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

Test Pressure: 105 Psig
Test Temperature: 81 °F
Component Design Pressure: 200 Psig
Temperature: 340 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 6/5/90 Date 6-5-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/26/89 to 5/23/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 6/5/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0518

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/26/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Diesel Cooling Water (DCW) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1974 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
DCW-HX-1A2	ASHT	8-20004-01-1	29365	N/A	1976	Repair	Yes, Code Class 3

7. Description of Work: Weld repaired (weld build up) corroded areas on the channel cover plate and divider plate edge. The repair work was performed as follows
   1) Weld repaired the corroded areas
   2) Blended the weld repaired areas
   3) Performed MT examination on the weld repaired areas. MT examination results acceptable

ASHT - American Standard Heat Transfer Division

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0518

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]

Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/2/89 to 1/29/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

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

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0520

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/3/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Sample Radioactive (PSR) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S-X77AC	JCI	PI(1)-4S-X77AC	N/A	N/A	1983	Repair	Yes,Code Class NF (1)

7. Description of Work: Removed support material to facilitate rework on valve PSR-V-X77A/2. Upon completion of work on the valve, the support material was reinstalled. Made required welds for the support material

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0520

FORM NIS-2 (Back)

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

Test Pressure: Psig . Test Temperature: °F

Component Design Pressure: Psig Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]

Plant Technical Manager

Date 6/3/90. Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/14/89 to 12/6/89 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

Inspector's Signature National Board, State, and Endorsements

Date 6/4/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0523-1 And 2

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/5/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Service Water (SW) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SW(1)-2	WPPSS	SW(1)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description of Work: Replaced existing valves SW-V-214 and SW-V-215 and installed spacer rings. The replacement work was performed as follows:
   1) Machined spacer rings to the required design dimensions
   2) Removed existing valves and installed spacer rings in place
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0523-1 And 2

FORM NIS-2 (Back)

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

Test Pressure: 211 Psig — Test Temperature: 68 °F

Component Design Pressure: 309 Psig — Temperature: 150 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dulaip Singh — Signed by [signature] Plant Technical Manager

Date 6/5/90 — Date 6-5-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/12/89 to 12/14/89 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556LW National Board, State, and Endorsements

Date 6/5/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0524-1 And 2

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/5/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Service Water (SW) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SW(2)-2	WPPSS	SW(2)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description of Work: Replaced existing valves SW-V-216 and SW-V-217 and installed spacer rings. The replacement work was performed as follows:
   1) Machined spacer rings to the required design dimensions
   2) Removed existing valves and installed spacer rings in place
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0524-1 And 2

FORM NIS-2 (Back)

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

Test Pressure: 222 Psig — Test Temperature: 60 °F

Component Design Pressure: 309 Psig — Temperature: 150 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudiip Singh — Signed by [signature] Plant Technical Manager

Date 6/5/90 — Date 6-5-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/14/89 to 12/6/89 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/5/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0525

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner (Name) Washington Public Power Supply System — Date 10/4/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) — Unit WNP-2
   Plant (Address) Hanford, Benton County, WA — WPPSS (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 George Washington Way, Richland, WA
4. Identification of System Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III 1971 Edition, W73 Addenda, None Code Case
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 1980 Edition, Winter 80 Addenda, N308 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-TK-2C	Jet Air	N-133	N/A	N/A	1980	Replacement	Yes, Class 2

7. Description of Work:

Replaced bottom drain plug for MS-TK-2C.
The replacement work was performed as follows:

1. Machined new replacement plug
2. Installed new replacement plug
3. Performed pressure test to confirm pressure boundary integrity.
   Leakage was observed during pressure test and was evaluated to be acceptable.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0525

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 104 psig, Test Temp. 85 °F
Component Design Pressure 300 psig, Temp. 340 °F

9. Remarks:
None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [signature] Owner or Owner's Designee, Title Plant Technical Manager

9/29/89

Date 10-4 19 89

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 6/24/89 to 10/4/89, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature Commissions 7447W - B.N.I National Board, State, and Endorsements

Date OCTOBER 4 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0526

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner (Name) Washington Public Power Supply System — Date 9/22/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) — Unit WNP-2
   Plant (Address) Hanford, Benton County, WA — WPPSS (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 George Washington Way, Richland, WA
4. Identification of System Instrument Line
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, None Code Case
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, Winter 80
   Addenda, N308 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S-X82d	JCI	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work:

Installed missing support material. The replacement work was performed as follows:

1. Installed angle iron by welding.
2. Installed U-bolt and associated bolting material.

Notes:

37)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0526

FORM NIS-2 (Back)

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

9. Remarks:

None

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [signature] (Owner or Owner's Designee,) Title Plant Technical Manager

9/19/89

Date Sept. 22 19 89

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 6/30/89 to 9/18/89, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions 9556 W (National Board, State, and Endorsements)

Date 9/22 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0529

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/26/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Instrumentation (PI) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI-VX-265	Target Rock	10	N/A	N/A	1980	Repair	Yes, Code Class 2

7. Description of Work: Repaired valve PI-VX-265. The repair work was performed as follows
   1) Cut body to bonnet seal weld
   2) Removed valve internals for troubleshooting
   3) Reinstalled 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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0529

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Gipb — Signed by [signature] Plant Technical Manager

Date 5/31/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 7/13/89 to 4/26/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0530

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner (Name) Washington Public Power Supply System — Date 11/16/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) — Unit WNP-2
   Plant (Address) Hanford, Benton County, WA — WPPSS (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 George Washington Way, Richland, WA
4. Identification of System Containment Instrument Air (CIA)
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, None Code Case
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 1980 Edition, W80 Addenda, N308 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA-V-60A	BW	25900	N/A	N/A	1977	Repair	Yes, Class 2

7. Description of Work:

Repaired valve CIA-V-60A. The repair work was performed as follows:

1) Cut body to bonnet seal weld.
2) Removed valve internals for trouble shooting.
3) Reinstalled 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 final seal weld. PT examination results acceptable.

Notes:
BW - Borg Warner

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0530

FORM NIS-2 (Back)

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

9. Remarks:

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [signature] (Owner or Owner's Designee,) Title Plant Technical Manager

11/15/89

Date 11-15 19 89

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 9/25/89 to 11/10/89, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions 5970 W (National Board, State, and Endorsements)

Date 11/16 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0533

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/26/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Instrument Lines
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
D-220-9.0-H22-P21	JCI	*	N/A	N/A	1983	Replacement	Yes, Code Class 2 & 3
D-220-1.1-H22-P9	JCI	*	N/A	N/A	1983	Replacement	Yes, Code Class 2 & 3
D-220-1.1-H22-P27	JCI	*	N/A	N/A	1983	Replacement	Yes, Code Class 2
D-220-63.0-IR-73	JCI	*	N/A	N/A	1983	Replacement	Yes, Code Class 2
D-220-3500-25.0-CMS-LT-2	JCI	*	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced cap screws for tubing supports (block clamps). The replacement work was performed as follows
   1) Removed existing carbon steel cap screws and replaced them with stainless steel cap screws

* Same as name of the component

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0533

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dudip Singh — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 11/28/89 to 5/31/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/31/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0536

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 7/13/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Low Pressure Core Spray (LPCS) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1974 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
LPCS-RV-31	Lonergan	509258-71-1	N/A	N/A	1975	Replacement	Yes, Code Class 2

7. Description of Work: Replaced spring steps (washers) and spring for relief valve LPCS-RV-31. The replacement work was performed as follows:

Removed existing spring steps and spring and installed new replacement spring steps and spring

> Note: Spring steps and spring were replaced to lower the relief valve set pressure from 97 PSIG to 84 PSIG

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0536

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Philip Bugh — Signed by [signature] Plant Technical Manager

Date 7/13/90 — Date 7-13-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 1-15-90 to 7-13-90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 7/13/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0537

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-P-2A	Ingersoll-Rand Co	0473113	51	N/A	1974	Replacement	Yes, Code Class 2

7. Description of Work: Replaced flex hose RHR-FLX-2A for pump RHR-P-2A seal cooler piping. The replacement work was performed as follows
   1) Cut and removed section of existing piping material
   2) Installed new replacement piping material
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable
   5) Installed new replacement flex hose

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0537

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NPP-1 Code Data Report for new replacement flex hose RHR-FLX-2A, Serial No 001

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 6/12/90. Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/22/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556LW
Inspector's Signature — National Board, State, and Endorsements

Date 6/12/90

968-22684 (9/87)

*Corrected Code Data Report 5/5/89 PLAN No. 2-0537

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*

(As Required by the Provisions of the ASME Code Rules)

1. Fabricated by Metal Bellows Div. of Parker Hannifin Corp. Order No. A11559
   200 Science Dr., Moorpark, Ca. 93021-8010
2. Fabricated for Washington Public Power Supply System Order No. 97147
   Richland, WA (Name and Address)
3. Owner Washington Public Power Supply System Location of Plant WNP #2, Richland, WA 99352
5. Piping System Identification Flexible Metal Hose Assy.
   (Brief description of intended use, main coolant etc.)
   (a) Drawing No. 86771-1 Prepared by Metal Bellows Div. of Parker Hannifin Corp.
   (b) National Board No. ----
6. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2
   Edition 1971, Addenda Date W'73, Case No. N-192-2
   Remarks: Manufacturers' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report ----
   (Name of Part — Item number, Manufacturer's name, and Identifying stamp)
7. Shop Hydrostatic Test 10 Min. @ 760 psi.
8. Description of piping inspected 86771-1 Bellows; SA249 Type 321 .50" O.D. x .016" thick straight tube. Adaptor; SA479 Type 304, ~~one~~ *two. Nipple; SA479 Type 304, one. Stub End; SA403 Type 304 .50" IPS Sch. 40 (MOD), one. Flange; SA182 Type 316 .50" IPS 600# LJ, one. Total length 16.68". Design pressure 500 PSIG @ 480° F. Design verification by analysis per NC3649.4(e)(1) and Code Case N-192-2. Installation to be by Customer/Owner per IM78609. Metal Bellows Part No. 86771-1 S/N's 001, 002.
   (include — mark no. — material spec. — nom. pipe size — schedule or thickness — length — fittings — flanges, etc.)

EPN NO.	SERIAL NO.
RHR-FLX-2A	001
RHR-FLX-2C	002.

8/23/89

We certify that the statements made in this report are correct and that the fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.

Date 4-29-89 Signed Metal Bellows Div. (Fabricator) By [signature]

Certificate of Authorization Expires Sept. 25, 1990 Certificate of Authorization No. N-2512

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 L.M.C. of Long Grove, Ill. have inspected the piping described in this Data Report on 4-29 1989, and state that to the best of my knowledge and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concerning the piping 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 29 1989 [signature] (Inspector) Commissions CA1414 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 and 5

FORM NPP-1 (back)

9. Description of Field Fabrication

EPN NO	SERIAL NO.
RHR-FLX-2A	001
RHR-FLX-2C	002

Rudolph Ewers
8/23/89.

10. Field Hydrostatic Test _____ psi.

We certify that the field fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE, Class _____, Edition _____, Addenda Date _____ Case No. _____

Date _____, 19____ Signed _____ (Fabricator) By _____ (Representative)

Our Certification of Authorization to use the _____ Symbol Expires _____ 19____
Certificate of Authorization No. _____

CERTIFICATE OF FIELD FABRICATION 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 _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described piping 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 manufacturer has constructed this piping in accordance with the applicable section of the ASME CODE SECTION III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping described in this Manufacturer's 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 _____ 19____

_____ Commissions _____
Inspector National Board, State, Province and No.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0538

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/3/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-P-2B	Ingersoll-Rand Co	0473111	47	N/A	1974	Replacement	Yes, Code Class 2

7. Description of Work: Replaced flex hose RHR-FLX-2B for pump RHR-P-2B seal cooler piping. The replacement work was performed as follows
   1) Cut and removed section of existing piping material
   2) Installed new replacement piping material
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable
   5) Installed new replacement flex hose

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0538

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NPP-1 Code Data Report for new replacement flex hose RHR-FLX-2B, Serial No 001

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Sayers — Signed by [signature] Plant Technical Manager

Date 6/3/90. — Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/22/90 to 5/29/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 6/4/90

968-22684 (9/87)

PLAN NO. 2-0538

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*
(As Required by the Provisions of the ASME Code Rules)

1. Fabricated by Metal Bellows Div. of Parker Hannifin Corp. Order No. A11559
200 Science Dr., Moorpark, Ca. 93021-8010

2. Fabricated for Washingron Public Power Supply System Order No. 97147
Richland, WA (Name and Address)

3. Owner Washington Public Power Supply System Location of Plant WNP #2, Richland, WA 99352

5. Piping System Identification Flexible Metal Hose Assy.
(Brief description of intended use, main coolant etc.)

(a) Drawing No. 86771-2 Prepared by Metal Bellows Div. of Parker Hannifin Corp.
(b) National Board No. ——

6. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2
Edition 1971, Addenda Date W'73, Case No. N-192-2

Remarks: Manufacturers' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report ——
(Name of Part — Item number, Manufacturer's name, and Identifying stamp)

7. Shop Hydrostatic Test 10 Min. @ 760 psi.

8. Description of piping inspected 86771-2: Bellows; SA249 Type 321 .50" O.D. x .016" thick straight tube. Adaptors; SA479 Type 304, two. Nipple; SA479 Type 304, one. Stub End; SA403 Type 304 .50" IPS Sch. 40 (MOD), one. Flange; SA182 Type 316 .50" IPS 600# LJ, one. Total length 17.81". Design pressure 500 PSIG @ 480° F. Design verification by analysis per NC3649.4(e)(1) and Code Case N-192-2. Installation to be by Customer/Owner per IM78609. Metal Bellows Part No. 86771-2 S/N 001.
(Include — mark no. — material spec. — nom. pipe size — schedule or thickness — length — fittings — flanges, etc.)

EPN NO	SERIAL NO
RHR-FLX-2B	001

VERIFIED & ACCEPTED [signature] 5-15-89
LEVEL III R.I. Inspector Date

[signature] 8/23/89

We certify that the statements made in this report are correct and that the fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.

Date 5-5-89 Signed Metal Bellows Div. (Fabricator) By [signature]

Certificate of Authorization Expires Sept. 25, 1990 Certificate of Authorization No. N-2512

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 L.M.C. of Long Grove, Ill. have inspected the piping described in this Data Report on 5-5 19 89, and state that to the best of my knowledge and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concerning the piping 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 5 19 89 [signature] Commissions CA1414
(Inspector) National Board, State, Province and No.

* Provided (1) size is 8½" x 11", (2) information in items 1, 2 and 5

FORM NPP-1 (back)

9. Description of Field Fabrication

EPN NO. RHR-FLX-2B

SERIAL NO. 001

Kuldip Gupta
8/23/89

10. Field Hydrostatic Test _____ psi.

We certify that the field fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER PRESSURE VESSEL CODE, Class _____, Edition _____, Addenda Date _____ Case No. _____

Date _____, 19 _____ Signed _____ (Fabricator) By _____ (Representative)

Our Certification of Authorization to use the _____ Symbol Expires _____ 19 _____
Certificate of Authorization No. _____

CERTIFICATE OF FIELD FABRICATION 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 _____
and employed by _____ of _____
have compared the statements in this Manufacturer's Data Report with the described piping 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 manufacturer has constructed this piping in accordance with the applicable section of the ASME CODE SECTION III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping described in this Manufacturer's 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 _____ 19 _____

_____ Inspector Commissions _____ National Board, State, Province and No.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0539

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) — Date: 6/3/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 71 Edition with Summer 71 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-P-2C	Ingersoll-Rand Co	0473112	49	N/A	1974	Replacement	Yes, Code Class 2

7. Description of Work: Replaced flex hose RHR-FLX-2C for pump RHR-P-2C seal cooler piping. The replacement work was performed as follows
   1) Cut and removed section of existing piping material
   2) Installed new replacement piping material
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable
   5) Installed new replacement flex hose

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0539

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NPP-1 Code Data Report for new replacement flex hose RHR-FLX-2C, Serial No 002

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Smith — Signed by [signature] Plant Technical Manager

Date 6/3/90 — Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/22/90 to 6/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 6/4/90

968-22684 (9/87)

*Corrected Code Data Report 5/5/89 R Gil
Albert Ant

PLAN NO. 2-0539

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*
(As Required by the Provisions of the ASME Code Rules)

1. Fabricated by Metal Bellows Div. of Parker Hannifin Corp. Order No. A11559
200 Science Dr., Moorpark, Ca. 93021-8010

2. Fabricated for Washington Public Power Supply System Order No. 97147
Richland, WA (Name and Address)

3. Owner Washington Public Power Supply System Location of Plant WNP #2, Richland, WA 99352

5. Piping System Identification Flexible Metal Hose Assy.
(Brief description of intended use, main coolant etc.)

(a) Drawing No. 86771-1 Prepared by Metal Bellows Div. of Parker Hannifin Corp.
(b) National Board No. ——

6. The material, design, construction, and workmanship complies with ASME Code, Section III, Class 2
Edition 1971, Addenda Date W'73, Case No. N-192-2

Remarks: Manufacturers' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report ——
(Name of Part — Item number, Manufacturer's name, and identifying stamp)

7. Shop Hydrostatic Test 10 Min. @ 760 psi.

8. Description of piping inspected 86771-1 Bellows; SA249 Type 321 .50" O.D. x .016" thick straight tube. Adaptor; SA479 Type 304, ~~one~~ *two. Nipple; SA479 Type 304, one. Stub End; SA403 Type 304 .50" IPS Sch. 40 (MOD), one. Flange; SA182 Type 316 .50" IPS 600# LJ, one. Total length 16.68". Design pressure 500 PSIG @ 480° F. Design verification by analysis per NC3649.4(e)(1) and Code Case N-192-2. Installation to be by Customer/Owner per IM78609. Metal Bellows Part No. 86771-1 S/N's 001, 002.
(include — mark no. — material spec. — nom. pipe size — schedule or thickness — length — fittings — flanges, etc.)

EPN NO.	SERIAL NO.
RHR-FLX-2A	001
RHR-FLX-2C	002.

Quality Engr's 8/23/89.

We certify that the statements made in this report are correct and that the fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.

Date 4-29-89 Signed Metal Bellows Div. (Fabricator) By [signature]

Certificate of Authorization Expires Sept. 25, 1990 Certificate of Authorization No. N-2512

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 L.M.C. of Long Grove, Ill. have inspected the piping described in this Data Report on 4-29 1989, and state that to the best of my knowledge and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concerning the piping 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 29 1989 [signature] (Inspector) Commissions CA1414 National Board, State, Province and No.

FORM NPP-1 (back)

9. Description of Field Fabrication

EPN NO	SERIAL NO.
RHR-FLX-2A	001
RHR-FLX-2C	002

Rudolph Ewig
8/23/89.

10. Field Hydrostatic Test _____ psi.

We certify that the field fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE, Class _____, Edition _____, Addenda Date _____ Case No. _____

Date _____, 19 _____ Signed _____ (Fabricator) By _____ (Representative)

Our Certification of Authorization to use the _____ Symbol Expires _____ 19 _____
Certificate of Authorization No. _____.

CERTIFICATE OF FIELD FABRICATION 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 _____
and employed by _____ of _____
have compared the statements in this Manufacturer's Data Report with the described piping 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 manufacturer has constructed this piping in accordance with the applicable section of the ASME CODE SECTION III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping described in this Manufacturer's 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 _____ 19 _____

_____ Commissions _____
Inspector National Board, State, Province and No.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0540

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/4/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Inc. PO Box 600, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: C20069
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-2B	WPPSS	CIA(5)-2B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Installed flanges in CIA lines. The replacement work was performed as follows
   1) Cut existing piping to install new replacement flanges
   2) Installed new replacement flanges
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. Pt examination results acceptable
   5) Installed bolting material for the flanges
   6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0540

FORM NIS-2 (Back)

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

Test Pressure: 390 Psig — Test Temperature: 78 °F

Component Design Pressure: 300 Psig — Temperature: 340 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]

Plant Technical Manager

Date 6/4/90. Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/16/90 to 6/5/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

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

Date 6/5/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0541

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Equipment Drain Radioactive (EDR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 5/26/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
EDR-TK-4A	CB&I	S-1120	4086	N/A	1975	Replacement	Yes, Code Class 3

7. Description of Work: Replaced the bolting material for the following man holes for EDR-TK-4A tank
   20" Roof man hole nozzle "N"
   20" Roof man hole nozzle "M"

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0541

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudip Singh — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/16/90 to 5/31/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/31/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0542

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/26/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Equipment Drain Radioactive (EDR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
EDR-TK-4B	CB&I	S-1121	4087	N/A	1975	Replacement	Yes, Code Class 3

7. Description of Work: Replaced the bolting material for the following man holes for EDR-TK-4B tank
   20" Roof man hole nozzle "N"
   20" Roof man hole nozzle "M"

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0542

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulidip Singh — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/16/90 to 5/31/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 5/31/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0543

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Floor Drain Radioactive (FDR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
FDR-TK-9	CB&I	S-1124	4090	N/A	1975	Replacement	Yes, Code Class 3

7. Description of Work: Replaced the bolting material for the following man holes for FDR-TK-9 tank
   20" Roof man hole nozzle "J"
   20" Shell man hole nozzle "I"

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0543

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudip Gupta — Signed by [signature] Plant Technical Manager

Date 6/25/90 — Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/16/90 to 6/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0544

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/18/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: High Pressure Core Spray (HPCS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
HPCS-V-6	Borg Warner	17868	N/A	N/A	1971	Repair	Yes, Code Class 1

7. Description of Work: Repaired valve HPCS-V-6. The repair work was performed as follows
   1) Cut body to bonnet seal weld
   2) Removed valve internals for troubleshooting
   3) Reinstalled 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 pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0544

FORM NIS-2 (Back)

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

Test Pressure: 110 Psig — Test Temperature: 75 °F

Component Design Pressure: 3600 Psig — Temperature: 100 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Culdip Gupta — Signed by [signature] Plant Technical Manager

Date 9/18/90. — Date 9-18-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/20/90 to 5/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 9/18/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0545

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/29/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Inc. PO Box 600, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: C20069
4. Identification of System: Reactor Core Injection Cooling (RCIC) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda; Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RCIC(13)-4C12	WPPSS	RCIC(13)-4C12-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced existing valve RCIC-V-39. The replacement work was performed as follows
   1) Cut and removed existing valve
   2) Installed new replacement valve
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. Pt examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0545

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NPV-1 Code Data Report for new replacement valve RCIC-V-39 Serial No 16890

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Sipes — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/20/90 to 5/26/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

*Modified NPV-1 See 8a Remarks OB204

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 Gate Valve. Nominal Inlet Size 1 (inch) Outlet Size 1 (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#	~~16890~~, 16905	N/A	76700	2	N/A	1977
(2)		16906					
(3)				PLAN NO. 2-0545			
(4)							
(5)				REPLACEMENT VALVE			
(6)							
(7)				RCIC-V-39, S/N 16890			
(8)							
(9)						Dulaney Lupo 3/20/90	
(10)							

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

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate-Code 1P14	A296 GR CA6NM		*Part's Spec. was SA487
Casting-75347		Rex Precision	
Machined-75346		NV Division	
(b) Forgings			
Body-Code 1J60	SA 105		
Forging-70453		Pacific Forge	
Machined-70476		NV Division	
Assembly-75348		NV Division	
Bonnet-Code 1M28	SA 105		
Forged Stock		Compton Forge	
Machined-73973-1		NV Division	

REVIEWED FEB 23 1982 BECHTEL QUALITY CONTROL BY:

(1) For manually operated valves only.

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

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

WBG 8R 21-5-1456

2-12-1508

REPLACEMENT VALVE RCIC-V-39, S/N 16890. 0B204

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Stem Code 1M351	SA564 Type 630		
Bar Stock		Jorgenson Steel	
Machined 75323		NV Division	

RECEIVED FEB 23 1982 BECHTEL QUALITY CONTROL BY.

8. Hydrostatic test 5400 psi. Disc Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1, Edition 1971, Addenda Winter 1973 (Date). Code Case No. _____ Date December 18, 1981

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

Our ASME Certificate of Authorization No. N-1254 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.

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

(Inspector) Commissions 275 Cal. (Nat'l Bd., State, Prov. and No.)

WSG BR 215-14546

2 12 87 15 09

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0546

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) — Date: 6/3/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3. (a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Reactor Core Isolation Cooling (RCIC) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RCIC(13)-4C12	WPPSS	RCIC(13)-4C12-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2
RCIC(50)-1	WPPSS	RCIC(50)-1-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Installed valves RCIC-V-205, RCIC-V-206 and RCIC-V-207. The replacement work was performed as follows
   1) Cut and removed section of existing piping material
   2) Installed new replacement piping material and valves
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0546

FORM NIS-2 (Back)

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

Test Pressure: Psig Test Temperature: °F

Component Design Pressure: Psig Temperature: °F

9. Remarks: See attached NPV-1 Code Data Report for the following new replacement valves

EPN No	Serial No
RCIC-V-205	16928
RCIC-V-206	16909
RCIC-V-207	16913

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudiff Singh Signed by [signature]
Plant Technical Manager

Date 6/3/90 Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/2/90 to 5/28/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556W
Inspector's Signature National Board, State, and Endorsements

Date 6/4/90

968-22684 (9/87)

PLAN NO. 2-0546

WBGBR 215 12187

16913

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

As Required by the Provisions of the ASME Code Rules

0B257

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. 215-3261Q

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 Inch Gate Valve, C.S.

Serial Numbers 16913, 16916 Thru 16920 (6 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.

RCIC-V-205, S/N 16913 Guidip Gupta 6/1/90

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 1P14; 1P38	SA487 CA6NM		
Casting 75347		Rex Precision	
Machined 75346		NV Division	
(b) Forgings			
Body - Code 1J60	SA105		
Forging - 70453		Pacific Forge	
Machined - 70476		NV Division	
Assembly - 75348		NV Division	
Bonnet - Code 1M28	SA105		
Forged Stock		Compton Forge	
Machined - 73973-11		NV Division	

RECEIVED NOV 06 1991 SECONTEL QUALITY CONTROL BY: TB

*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 6 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

FORM NPV-1 (back)

Serial No. 16913
Rudolph Supp.
2/14/90

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			

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 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 March 4, 1977 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 March 4, 1977, 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 March 4, 1977

(Inspector) Commissions California (National Board, State, Province and No.)

Printed in U.S.A. (6/72) This form (E17) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

16928

PLAN NO. 2-0546.
UD207

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

As Required by the Provisions of the ASME Code Rules WBGBR 215 12185

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

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/N 76700, 1 Inch Gate Valve, CS
Serial Numbers 16921 thru 16928, 16875 and 16877 thru 16880
(Brief description of service for which equipment was designed) (13 Valves)

(a) Drawing No. 76700 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No.

RCIC-V-206, S/N 16928
Ludwig Guys
6/11/90

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 1P14, 1P38	SA487 CA6NM		
Casting - 75347		Rex Precision	
Machined - 75346		NV Division	
		REVIEWED NOV 06 1990	
		BECHTEL QUALITY CONTROL BY:	
(b) Forgings			
Body - Code 1J60	SA 105		
Forging - 70453		Pacific Forge	
Machined - 70476		NV Division	
Assembly - 75348		NV Division	
Bonnet - Code 1M28, 1M53	SA 105		
Forged Stock		Compton Forge	
Machined - 73973 -11		NV Division	
Assembly - 73973		NV Division	

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

FORM NPV-1 (back)

Serial No. 16928

Quality Surveys 2/14/96

	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 March 10 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 March 10 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 March 10 19 77

(Inspector) Commissions California (National Board, State, Province and No.)

12 89 1031

16909

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

As Required by the Provisions of the ASME Code Rules

PLAN NO. 2-0546

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)

0B221

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 Inch Gate Valve, CS

Serial Numbers 16873, 16874, 16895, 16903, 16907 Thru 16910
(Brief description of service for which equipment was designed) (8 Valves) S/N 16909

(a) Drawing No. 76700 Prepared by Nuclear Valve Division of Borg Warner

6

(b) National Board No.

RCIC-V-207, S/N 16909
Rudolph Supts 6/1/90

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 1P14-	SA487 CA6NM		
Casting - 75347		Rex Precision	
Machined - 75346		NV Division	
			225 14928
(b) Forgings			
Body - Code 1J60-	SA105		
Forging - 70453		Pacific Forge	
Machined - 70476		NV Division	
Assembly - 75348		NV Division	
Bonnet - Code 1M28-1M53-	SA105		
Forged Stock		Compton Forge	
Machined - 73973-11		NV Division	
Assembly - 73973		NV Division	

REVIEWED
FEB 25 1982
QUALITY CONTROL

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

2

FORM NPV-1 (back) Serial No. 16909

Rudolph Lewis 2/14/90

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 22 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 February 22 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 22 19 77

[signature] (Inspector) Commissions Calif 1019 (National Board, State, Province and No.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0547

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) — Date: 5/26/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Reactor Recirculation Cooling (RRC) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RRC-P-1A	Bingham Willamette	B-2-1034	NB-134	N/A	1974	Replacement	Yes, Code Class 1

7. Description of Work: Installed U bolt and jam nuts for support RRC-1336-206 on RRC-P-1A seal staging line

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0547

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Quality Supb — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/22/90 to 5/31/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 (W) National Board, State, and Endorsements

Date 5/31/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0548

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/26/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Reactor Recirculation Cooling (RRC) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RRC-P-1B	Bingham Willamette	B-2-1035	NB-135	N/A	1974	Replacement	Yes, Code Class 1

7. Description of Work: Installed U bolt and jam nuts for support RRC-1553-402 on RRC-P-1B seal staging line

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0548

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Bush — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/22/90 to 5/31/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/31/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0551

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/26/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(9)-1	WPPSS	RHR(9)-1-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Installed lap joint flange for relief valve RHR-RV-30. The replacement work was performed as follows:
   1) Cut existing 3/4" inlet pipe to RHR-RV-30
   2) Installed lap joint flange, lap joint stub and coupling
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0551

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dwaip Gupta — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/19/90 to 5/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0552

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) — Date: 6/1/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
B(22)-G001A	WPPSS	B(22)-G001A-P1	N/A	N/A	1983	Replacement	Yes, Code Class NF(1)
MS(18)-2-4	WPPSS	MS(18)-2-4-P1	N/A	N/A	1983	Replacement	Yes, Code Class NF(1)

7. Description of Work: Replaced existing snubbers with rigid struts. The replacement work was performed as follows
   1) Removed existing snubbers
   2) Installed rigid struts
   3) Performed Preservice Inspections (PSI). PSI results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0552

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NF-2 Code Data Reports for the following

Support No	Serial No	Support No	Serial No
MS-256	NA-2295-026-16	MSRV-4A-9	NA-2295-027-4
MS-SA-1	NA-2765-008	MSRV-4A-10	NA-2295-027-5
MS-SA-2	NA-2765-009		
MS-SA-4	NA-2765-006		
MS-SA-7	NA-2765-007		

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 6/1/90 Date 6-1-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/23/90 to 6/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556W
Inspector's Signature — National Board, State, and Endorsements

Date 6/1/90

968-22684 (9/87)

NF-2 NPT CERTIFICATE HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORT*

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

PLAN NO. 2-0552
Quality Supt.
5/31/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)

3. Location of Installation WNP-2 OPS WHS-COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

4.

	(a) Part Serial No.	(b) Canadian Registration No.	(c) Part Drawing No.	(d) Description of Part	(e) Class	(f) National Board No.	(g) Year Built
(1)	*	N/A	S-1227	SWAY STRUT	1	N/A	1990
(2)			REV.0	ADJUSTABLE			
(3)				SSR-35 TYPE A			
(4)							
(5)							
(6)	*NA-2765-006						
(7)							
(8)							
(9)							
(10)							

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971, Addenda WINTER 1973 (Date). Code Case no. N247.

Date APRIL 20 19 90. Signed NPS INDUSTRIES, INC. (NPT Certificate Holder) by SANDY REYNOLDS

Our ASME Certificate of Authorization No. N-2689 to use the NPT (NPT) Symbol expires JULY 12, 1991 (Date)

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 TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS have inspected the parts for the component supports described in this Data Report on 4-20, 19 90, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts 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 4-20-90

Signed [signature] Commissions TX 1053 (Nat'l Board, State, Province, and No.)

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on items 1-4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

(10/77) This form (E00076) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NF-2 NPT CERTIFICAT. OLDERS' PARTIAL DATA REPORT FOR PA FOR COMPONENT SUPPORT*
As Required by the Provisions of the ASME Code Rules, Section III, Division 1

PLAN NO. 2-0552
Building Bitch
5/31/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)

3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT-LOOP, RICHLAND, WA 99352

4.

	(a) Part Serial No.	(b) Canadian Registration No.	(c) Part Drawing No.	(d) Description of Part	(e) Class	(f) National Board No.	(g) Year Built
(1)	*	N/A	S-1227	SWAY STRUT	1	N/A	1990
(2)			REV. 0	ADJUSTABLE			
(3)				SSR-35 TYPE A			
(4)							
(5)							
(6)	*NA-2765-007						
(7)							
(8)							
(9)							
(10)							

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971, Addenda WINTER 1973 (Date), Code Case no. N247.

Date APRIL 20 19 90. Signed NPS INDUSTRIES, INC. (NPT Certificate Holder) by SANDY REYNOLDS

Our ASME Certificate of Authorization No. N-2689 to use the NPT (NPT) Symbol expires JULY 12, 1991 (Date)

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 TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS have inspected the parts for the component supports described in this Data Report on 4-20, 19 90, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts 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 4-20-90

Signed [signature] Commissions T. 1083 (Nat'l Board, State, Province, and No.)

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on items 1-4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

7

FORM NF-2 NPT CERTIFICATE HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORT*
As Required by the Provisions of the ASME Code Rules, Section III, Division 1

PLAN NO. 2-0552
Lindip Singh 5/31/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)

3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

4.

	(a) Part Serial No.	(b) Canadian Registration No.	(c) Part Drawing No.	(d) Description of Part	(e) Class	(f) National Board No.	(g) Year Built
(1)	*	N/A	SPN-042	SWAY STRUT	1	N/A	1990
(2)			REV.0	ADJUSTABLE			
(3)				SSR-100 TYPE A			
(4)							
(5)							
(6)	*NA-2765-008						
(7)							
(8)							
(9)							
(10)							

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971, Addenda WINTER 1973 (Date), Code Case no. N247.

Date APRIL 19 19 90. Signed NPS INDUSTRIES, INC. (NPT Certificate Holder) by SANDY REYNOLDS

Our ASME Certificate of Authorization No. N-2689 to use the NPT (NPT) Symbol expires JULY 12, 1991 (Date)

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 TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS have inspected the parts for the component supports described in this Data Report on 4-19, 19 90, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts 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 4-19-90

Signed [signature] Commissions TX1097
(Nat'l Board, State, Province, and No.)

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on items 1-4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

FORM NF-2 NPT CERTIFICATE HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORT*
As Required by the Provisions of the ASME Code Rules, Section III, Division 1

PLAN NO. 2-0552
5/31/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)

3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

4.

	(a) Part Serial No.	(b) Canadian Registration No.	(c) Part Drawing No.	(d) Description of Part	(e) Class	(f) National Board No.	(g) Year Built
(1)	*	N/A	SPN-042	SWAY STRUT	1	N/A	1990
(2)			REV.0	ADJUSTABLE			
(3)				SSR-100 TYPE A			
(4)							
(5)							
(6)	*NA-2765-009						
(7)							
(8)							
(9)							
(10)							

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971, Addenda WINTER 1973 (Date), Code Case no. N247.

Date APRIL 19 19 90. Signed NPS INDUSTRIES, INC. (NPT Certificate Holder) by SANDY REYNOLDS

Our ASME Certificate of Authorization No. N-2689 to use the NPT (NPT) Symbol expires JULY 12, 1991 (Date)

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 TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS have inspected the parts for the component supports described in this Data Report on 4-19, 19 90, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts 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 4-19-90

Signed _____ Commissions T4 1083 (Nat'l Board, State, Province, and No.)

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on items 1-4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

FORM NF-2 NPT CERTIFICATE HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORT*
As Required by the Provisions of the ASME Code Rules, Section III, Division 1

PLAN NO 2-0552
Building Supply
5/31/90.

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BLVD., AUSTIN, TEXAS 78758
(Name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, PO BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)

3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

4.

	(a) Part Serial No.	(b) Canadian Registration No.	(c) Part Drawing No.	(d) Description of Part	(e) Class	(f) National Board No.	(g) Year Built
(1)	*	N/A	NPS-140	REPLACEMENT	1	N/A	1988
(2)			REV.0	SNUBBER			
(3)				SMR-3			
(4)							
(5)	* NA-2295-026-1						
(6)	THRU						
(7)	NA-2295-026-20						
(8)							
(9)							
(10)							

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971, Addenda WINTER 1973 (Date), Code Case no. N247.

Date MARCH 25, 19 88. Signed NPS INDUSTRIES (NPT Certificate Holder) by SANDY REYNOLDS

Our ASME Certificate of Authorization No. N-2689 to use the NPT (NPT) Symbol expires JULY 12, 1988 (Date)

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 TEXAS and employed by *HSB I&I CO. of HARTFORD, CONNECTICUT have inspected the parts for the component supports described in this Data Report on 3/25, 19 88, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts 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 3/25/88

Signed [signature] Commissions TEXAS 1182
(National Board, State, Province, and No.)

FORM NF-2 NPT CERTIFICATE HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORT*
As Required by the Provisions of the ASME Code Rules, Section III, Division 1

PLAN NO 2-0552
Backup Supp
5/31/90.

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BLVD., AUSTIN, TEXAS 78758
(Name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, PO BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)

3. Location of Installation WNP-2 OPS WHS COMPLEX. WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

4.

(a) Part Serial No.	(b) Canadian Registration No.	(c) Part Drawing No.	(d) Description of Part	(e) Class	(f) National Board No.	(g) Year Built
(1) *	N/A	NPS-140	REPLACEMENT	1	N/A	1988
(2)		REV.0	SNUBBER			
(3)			SMR-10			
(4)						
(5) * NA-2295-027-1						
(6) THRU						
(7) NA-2295-027-21						
(8)						
(9)						
(10)						

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971, Addenda WINTER 1973 (Date), Code Case no. N247.

Date MARCH 25 19 88. Signed NPS INDUSTRIES (NPT Certificate Holder) by SANDY REYNOLDS

Our ASME Certificate of Authorization No. N-2689 to use the NPT (NPT) Symbol expires JULY 12, 1988 (Date)

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 TEXAS and employed by *HSBI&I CO. of HARTFORD, CONNECTICUT have inspected the parts for the component supports described in this Data Report on 3/25, 19 88, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts 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 3/25/88

Signed [illegible] Commissions TEXAS 1186
(National Board, State, Province, and No.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0553

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/3/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971/1974 Edition with Winter 1973/1974 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(9)-1	WPPSS	RHR(9)-1-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2
RHR-RV-30	JE Lonegran	509258-77-1	N/A	N/A	1978	Replacement	Yes, Code Class 2

7. Description of Work: Installed test port for relief valve RHR-RV-30. The work was performed as follows
   1) Machined off the raised face on the valve flange
   2) Machined grooves on the new replacement pipe flange to accommodate elastomeric "O" rings
   3) Beveled pipe and fitting ends. Performed PT examination on the beveled ends. PT examination results acceptable
   4) Installed pipe flange, pipe and made required welds. Performed PT and RT examination on the final circumferential butt welds. PT and RT examination results acceptable
   5) Drilled hole in the flange outer edge. Installed male connector and made required weld. Performed PT examination on the final weld. PT examination results acceptable

   > RHR(9)-1: ASME Section III, 1971 Edition with Winter 1973 Addenda
   > RHR-RV-30: ASME Section III, 1974 Edition with Winter 1974 Addenda

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0553

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Guys — Signed by [signature] Plant Technical Manager

Date 6/3/90 — Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/4/90 to 5/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 6/4/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0554

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/20/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-22B	Rockwell	JT-37	69	N/A	1973	Replacement	Yes, Code Class 1

7. Description of Work: Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new replacement valve internal parts to slide on. Replaced existing internal valve parts with new replacement parts (disc and stem disc). The repair/replacement work was performed as follows.
   1) Prepped (blended) cavities for weld repair
   2) Performed MT examination on the cavities. MT examination results acceptable
   3) Repaired cavities by welding
   4) Machined the weld repaired areas
   5) Performed MT or PT examination on the machined surfaces. MT or PT examination results acceptable
   6) Installed new replacement parts
   7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0554

FORM NIS-2 (Back)

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

Test Pressure: 955 Psig — Test Temperature: 532 °F

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

9. Remarks: See attached N-2 Code Data Reports for new replacement disc, Serial No 215585-2 and stem disc, Serial No 6033641-158

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dulip Gupta — Signed by [signature] Plant Technical Manager

Date 8/20/90 — Date 8-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/19/90 to 8/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 (W) National Board, State, and Endorsements

Date 8/22/90

968-22684 (9/87)

PLAN NO. 2-0554

Rudolph Smith 6/11/90.

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

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

Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Edward Valves, Inc., 1900 E. Saunders St., Raleigh, NC 27603 (name and address of NPT Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, Washington 99352 (name and address of purchaser)
3. Location of installation Hanford II, Richland, Washington 99352 (name and address)
4. Type PD-422885, R/S (drawing no.) SA 105 (mat'l. spec. no.) N/A (tensile strength) N/A (CRN) 1990 (year built)
5. ASME Code, Section III: 1971 (edition) Winter 1971 (addenda date) 1 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: Four (4) Disk-Piston assemblies for size 26 figure 1612 JMMNTY flite-flow balanced stop valve.

(Ref. S.O. E36-11692)

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 215585-1	N/A	(26)	
(2) 215585-2	N/A	(27)	
(3) 215585-3	N/A	(28)	
(4) 215585-4	N/A	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F

*Supplemental information in the 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 the number of sheets is recorded at the top of this form.

(12/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM N-2 (back)

Mfr. Serial No. 215585-1 thru 4

CERTIFICATION OF DESIGN

Design specifications certified by Boyd Brooks (when applicable) P.E. State CA Reg. no. 13655

Design report* certified by S.L. Adams III (when applicable) P.E. State NC Reg. no. 4187

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. N-1563 Expires 11/26/91

Date 2/23/90 Name Edward Valves, Inc. (NPT Certificate Holder) Signed [signature] (authorized representative)

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 North Carolina and employed by The Hartford Steam Boiler Inspection & Insurance Company of Hartford, CT have inspected these items described in this Data Report on 2-23-90, 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 2-23-90 Signed [signature] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

R 2-28-90

PLAN No. 2-0554
Rulding Serv
6/11/90.

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 Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 27603 (name and address of certificate holder)
2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968 (name and address of purchaser)
3. Location of installation Hanford II, Richland, WA 99352 (name and address)
4. Type PD-422885 R/R (drawing no.) SA-105 (mat'l. spec. no.) N/A (tensile strength) N/A (CRN) 1989 (year built)
5. ASME Code, Section III: 1971 (edition) Winter 1971 (addenda) 1 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (No.) Revision N/A Date N/A
7. Remarks: Eight (8) Stem Disk for 26" 1612 JMMNTY Main Steam Isolation Valve.

   Rockwell S.O. No. 36-07399
8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 6033641-151	N/A	(26)	
(2) 6033641-152	N/A	(27)	
(3) 6033641-153	N/A	(28)	
(4) 6033641-154	N/A	(29)	
(5) 6033641-155	N/A	(30)	
(6) 6033641-156	N/A	(31)	
(7) 6033641-157	N/A	(32)	
(8) 6033641-158	N/A	(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 psi Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F.

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

FORM N-2 (back)

Mfr. Serial No. 6033641-151-158

CERTIFICATE OF DESIGN

Design specifications certified by Boyd Brooks (when applicable) P. E. state CA Reg. no. 13655

Design report* certified by Salathiel Liell Adams, III (when applicable) P. E. state NC Reg. no. 4187

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. N-1563 Expires 11/26/91

Date 4/7/89 Name Rockwell International Corp. (NPT Certificate Holder) Signed [illegible] (authorized representative)

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 North Carolina and employed by HSBI & I Co. of Hartford, CT have inspected these items described in this data report on 4-7-89 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 4-7-89 Signed [illegible] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0555

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/20/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-22C	Rockwell	JT-54	70	N/A	1973	Replacement	Yes, Code Class 1

7. Description of Work: Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new replacement valve internal parts to slide on. Replaced existing internal valve parts with new replacement parts (disc and stem disc). The repair/replacement work was performed as follows.
   1) Prepped (blended) cavities for weld repair
   2) Performed MT examination on the cavities. MT examination results acceptable
   3) Repaired cavities by welding
   4) Machined the weld repaired areas
   5) Performed MT or PT examination on the machined surfaces. MT or PT examination results acceptable
   6) Installed new replacement parts
   7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0555

FORM NIS-2 (Back)

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

Test Pressure: 955 Psig — Test Temperature: 532 °F

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

9. Remarks: See attached N-2 Code Data Reports for new replacement disc, Serial No 215585-1 and stem disc, Serial No 6033641-155

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Seiß — Signed by [signature] Plant Technical Manager

Date 8/20/90 — Date 8-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/19/90 to 8/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8/22/90

968-22684 (9/87)

PLAN No. 2-0555

Kuldip Gupta 6/11/90.

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

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

Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Edward Valves, Inc., 1900 E. Saunders St., Raleigh, NC 27603 (name and address of NPT Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, Washington 99352 (name and address of purchaser)
3. Location of installation Hanford II, Richland, Washington 99352 (name and address)
4. Type PD-422885, R/S (drawing no.) SA 105 (mat'l. spec. no.) N/A (tensile strength) N/A (CRN) 1990 (year built)
5. ASME Code, Section III: 1971 (edition) Winter 1971 (addenda date) 1 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: Four (4) Disk-Piston assemblies for size 26 figure 1612 JMMNTY flite-flow balanced stop valve.

(Ref. S.O. E36-11692)

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 215585-1	N/A	(26)	
(2) 215585-2	N/A	(27)	
(3) 215585-3	N/A	(28)	
(4) 215585-4	N/A	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F

*Supplemental information in the 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 the number of sheets is recorded at the top of this form.

(12/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM N-2 (back)

Mfr. Serial No. 215585-1 thru 4

CERTIFICATION OF DESIGN

Design specifications certified by Boyd Brooks (when applicable) P.E. State CA Reg. no. 13655

Design report* certified by S.L. Adams III (when applicable) P.E. State NC Reg. no. 4187

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. N-1563 Expires 11/26/91

Date 2/23/90 Name Edward Valves, Inc. (NPT Certificate Holder) Signed [signature] (authorized representative)

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 North Carolina and employed by The Hartford Steam Boiler Inspection & Insurance Company of Hartford, CT have inspected these items described in this Data Report on 2-23-90, 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 2-23-90 Signed [signature] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

K 2-26-90

PLAN NO. 2-0555

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

Rudolf Gupi 6/11/90.

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 Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 27603 (name and address of certificate holder)

2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968 (name and address of purchaser)

3. Location of installation Hanford II, Richland, WA 99352 (name and address)

4. Type PD-422885 R/R (drawing no.) SA-105 (mat'l. spec. no.) N/A (tensile strength) N/A (CRN) -1989 (year built)

5. ASME Code, Section III: 1971 (edition) Winter 1971 (addenda) 1 (class) N/A (Code Case no.)

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

7. Remarks: Eight (8) Stem Disk for 26" 1612 JMMNTY Main Steam Isolation Valve.

Rockwell S.O. No. 36-07399

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 6033641-151	N/A	(26)	
(2) 6033641-152	N/A	(27)	
(3) 6033641-153	N/A	(28)	
(4) 6033641-154	N/A	(29)	
(5) 6033641-155	N/A	(30)	
(6) 6033641-156	N/A	(31)	
(7) 6033641-157	N/A	(32)	
(8) 6033641-158	N/A	(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 psi Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F.

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

Mfr. Serial No. 6033641-151-158

CERTIFICATE OF DESIGN

Design specifications certified by Boyd Brooks (when applicable) P. E. state CA Reg. no. 13655

Design report* certified by Salathiel Liell Adams, III (when applicable) P. E. state NC Reg. no. 4187

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. N-1563 Expires 11/26/91

Date 4/7/89 Name Rockwell International Corp. (NPT Certificate Holder) Signed [illegible] (authorized representative)

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 North Carolina and employed by HSBI & I Co. of Hartford, CT have inspected these items described in this data report on 4-7-89, 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 4-7-89 Signed [illegible] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0556

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/20/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-28B	Rockwell	JS-98	96	N/A	1974	Replacement	Yes, Code Class 1

7. Description of Work: Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new replacement valve internal parts to slide on. Replaced existing internal valve parts with new replacement parts (disc and stem disc). The repair/replacement work was performed as follows.
   1) Prepped (blended) cavities for weld repair
   2) Performed MT examination on the cavities. MT examination results acceptable
   3) Repaired cavities by welding
   4) Machined the weld repaired areas
   5) Performed MT or PT examination on the machined surfaces. MT or PT examination results acceptable
   6) Installed new replacement parts
   7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0556

FORM NIS-2 (Back)

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

Test Pressure: 955 Psig — Test Temperature: 532°F

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

9. Remarks: See attached N-2 Code Data Reports for new replacement disc, Serial No 215585-3 and stem disc, Serial No 6033641-151

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 8/20/90 Date 8-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/19/90 to 8/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W
Inspector's Signature — National Board, State, and Endorsements

Date 8/22/90

968-22684 (9/87)

PLAN NO. 2-0556
Rudi Smith
6/11/90.

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

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Edward Valves, Inc., 1900 S. Saunders St., Raleigh, NC 27603 (name and address of NPT Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, Washington 99352 (name and address of purchaser)
3. Location of installation Hanford II, Richland, Washington 99352 (name and address)
4. Type PD-422885, R/S (drawing no.) SA 105 (mat'l. spec. no.) N/A (tensile strength) N/A (CRN) 1990 (year built)
5. ASME Code, Section III: 1971 (edition) Winter 1971 (addenda date) 1 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: Four (4) Disk-Piston assemblies for size 26 figure 1612 JMMNTY flite-flow balanced stop valve.

(Ref. S.O. E36-11692)

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 215585-1	N/A	(26)	
(2) 215585-2	N/A	(27)	
(3) 215585-3	N/A	(28)	
(4) 215585-4	N/A	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F

*Supplemental information in the 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 the number of sheets is recorded at the top of this form.

(12/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM N-2 (back)

Mfr. Serial No. 215585-1 thru 4

CERTIFICATION OF DESIGN

Design specifications certified by Boyd Brooks (when applicable) P.E. State CA Reg. no. 13655

Design report* certified by S.L. Adams III (when applicable) P.E. State NC Reg. no. 4187

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. N-1563 Expires 11/26/91

Date 2/23/90 Name Edward Valves, Inc. (NPT Certificate Holder) Signed [signature] (authorized representative)

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 North Carolina and employed by The Hartford Steam Boiler Inspection & Insurance Company of Hartford, CT have inspected these items described in this Data Report on 2-23-90, 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 2-23-90 Signed [signature] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

R 2-26-90

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0557

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/20/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-28C	Rockwell	JU-17	77	N/A	1973	Replacement	Yes, Code Class 1

7. Description of Work: Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new replacement valve internal parts to slide on. Replaced existing internal valve parts with new replacement parts (disc and stem disc). The repair/replacement work was performed as follows.
   1) Prepped (blended) cavities for weld repair
   2) Performed MT examination on the cavities. MT examination results acceptable
   3) Repaired cavities by welding
   4) Machined the weld repaired areas
   5) Performed MT or PT examination on the machined surfaces. MT or PT examination results acceptable
   6) Installed new replacement parts
   7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0557

FORM NIS-2 (Back)

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

Test Pressure: 955 Psig — Test Temperature: 532 °F

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

9. Remarks: See attached N-2 Code Data Reports for new replacement disc, Serial No 215585-4 and stem disc, Serial No 6033641-157

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pradip Ganjis — Signed by [signature] Plant Technical Manager

Date 8/20/90 — Date 8-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/19/90 to 8/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8/22/90

968-22684 (9/87)

PLAN NO. 2-0557
Kuldip Gupta
6/4/90

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 Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 276C
(name and address of certificate holder)

2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
(name and address of purchaser)

3. Location of installation Hanford II, Richland, WA 99352
(name and address)

4. Type PD-422885 R/R (drawing no.) SA-105 (mat'l. spec. no.) N/A (tensile strength) N/A (CRN) 1989 (year built)

5. ASME Code, Section III: 1971 (edition) Winter 1971 (addenda) 1 (class) N/A (Code Case no.)

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

7. Remarks: Eight (8) Stem Disk for 26" 1612 JMMNTY Main Steam Isolation Valve.

Rockwell S.O. No. 36-07399

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per#4 Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 6033641-151	N/A	(26)	
(2) 6033641-152	N/A	(27)	
(3) 6033641-153	N/A	(28)	
(4) 6033641-154	N/A	(29)	
(5) 6033641-155	N/A	(30)	
(6) 6033641-156	N/A	(31)	
(7) 6033641-157	N/A	(32)	
(8) 6033641-158	N/A	(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 psi Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F

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

FORM N-2 (back)

Mfr. Serial No. 6033641-151-

CERTIFICATE OF DESIGN

158

Design specifications certified by Boyd Brooks (when applicable) P. E. state CA Reg. no. 13655

Design report* certified by Salathiel Liell Adams, III (when applicable) P. E. state NC Reg. no. 4187

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. N-1563 Expires 11/26/91

Date 4/7/89 Name Rockwell International Corp. (NPT Certificate Holder) Signed (authorized representative)

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 North Carolina and employed by HSBI & I Co. of Hartford, CT have inspected these items described in this data report on 4-7-89 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 4-7-89 Signed (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

PLAN NO. 2-0557
Kulaip Sup's
6/4/90

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

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Edward Valves, Inc., 1900 S. Saunders St., Raleigh, NC 27603 (name and address of NPT Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, Washington 99352 (name and address of purchaser)
3. Location of installation Hanford II, Richland, Washington 99352 (name and address)
4. Type PD-422885, R/5 (drawing no.) SA 105 (mat'l. spec. no.) N/A (tensile strength) N/A (CRN) 1990 (year built)
5. ASME Code, Section III: 1971 (edition) Winter 1971 (addenda date) 1 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: Four (4) Disk-Piston assemblies for size 26 figure 1612 JMMNTY flite-flow balanced stop valve.

(Ref. S.O. E36-11692)

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 215585-1	N/A	(26)	
(2) 215585-2	N/A	(27)	
(3) 215585-3	N/A	(28)	
(4) 215585-4	N/A	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F

*Supplemental information in the 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 the number of sheets is recorded at the top of this form.

(12/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM N-2 (back)

Mfr. Serial No. 215585-1 thru 4

CERTIFICATION OF DESIGN

Design specifications certified by Boyd Brooks (when applicable) P.E. State CA Reg. no. 13655

Design report* certified by S.L. Adams III (when applicable) P.E. State NC Reg. no. 4187

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. N-1563 Expires 11/26/91

Date 2/23/90 Name Edward Valves, Inc. (NPT Certificate Holder) Signed (Authorized representative)

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 North Carolina and employed by The Hartford Steam Boiler Inspection & Insurance Company of Hartford, CT have inspected these items described in this Data Report on 2-23-90, 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 2-23-90 Signed (Authorized Inspector) Commissions NC 1053 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

K 2-28-90

PLAN NO. 2-0557
Kuldip Singh
6/4/90

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 Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 276C
(name and address of certificate holder)

2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
(name and address of purchaser)

3. Location of installation Hanford II, Richland, WA 99352
(name and address)

4. Type PD-422885 R/R (drawing no.) SA-105 (mat'l. spec. no.) N/A (tensile strength) N/A (CRN) 1989 (year built)

5. ASME Code, Section III: 1971 (edition) Winter 1971 (addenda) 1 (class) N/A (Code Case no.)

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

7. Remarks: Eight (8) Stem Disk for 26" 1612 JMMNTY Main Steam Isolation Valve.
Rockwell S.O. No. 36-07399

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per#4 Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 6033641-151	N/A	(26)	
(2) 6033641-152	N/A	(27)	
(3) 6033641-153	N/A	(28)	
(4) 6033641-154	N/A	(29)	
(5) 6033641-155	N/A	(30)	
(6) 6033641-156	N/A	(31)	
(7) 6033641-157	N/A	(32)	
(8) 6033641-158	N/A	(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 psi Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F

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

[illegible] may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 100

FORM N-2 (back)

Mfr. Serial No. 6033641-151

CERTIFICATE OF DESIGN

158

Design specifications certified by Boyd Brooks (when applicable) P. E. state CA Reg. no. 13655

Design report* certified by Salathiel Liell Adams, III (when applicable) P. E. state NC Reg. no. 418[redacted]

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. N-1563 Expires 11/26/91

Date 4/7/89 Name Rockwell International Corp. (NPT Certificate Holder) Signed [illegible] (authorized representative)

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 North Carolina and employed by HSBI & I Co. of Hartford, CT have inspected these items described in this data report on 4-7-89 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 4-7-89 Signed [illegible] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0562

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 10/17/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
B22-G001D	WPPSS	B22-G001D-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1

7. Description of Work: Replaced existing relief valve MS-RV-1D with new replacement relief valve. The replacement work was performed as follows:
   1) Removed existing relief valve MS-RV-1D, Serial No N63790-00-0050 with set pressure of 1175 PSIG at rated temperature of 575 F
   2) Installed new replacement relief valve Serial No N63790-00-0122 with set pressure of 1175 PSIG at rated temperature of 575 F
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0562

FORM NIS-2 (Back)

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

Test Pressure: 957/6.7 Psig — Test Temperature: 535/74.8 °F

Component Design Pressure: 1250/500 Psig — Temperature: 575/470 °F

9. Remarks: See attached NV-1 Code Data Report for new replacement relief valve MS-RV-1D, Serial No N63790-00-0122

> Component design pressure 1250 PSIG, temperature 575 F for relief valve inlet piping and component design pressure 500 PSIG, temperature 470 F for relief valve outlet piping
> Nominal operating pressure test on relief valve inlet flanged joint (Code Class 1) - test pressure 957 PSIG, test temperature 535 F
> Pneumatic test on relief valve outlet flanged joint (Code Class 3), body to bonnet flanged joint (Code Class 1), nozzel ring and adjusting ring set screw joints (Code Class 1) - test pressure 6.7 PSIG, test temperature 74.8 F

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 10/18/90. Date 8 OCT 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/3/90 to 10/17/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W
Inspector's Signature — National Board, State, and Endorsements

Date 10/18/90

968-22684 (9/87)

MS-RV-1D

PLAN NO. 2 0562
Carl Smith 10/17/90.

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

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

Q.C.-44D

DATA REPORT
Safety and Safety Relief Valves

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

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

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

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

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

5. Valve Identification MPL #B22-F013 Serial No. N63790-00-0122 Drawing No. DS-A-63790 Rev. C

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

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

Stamped Capacity 884,314 @ 3 % Overpressure -- Blowdown (psig) 2% to 11%

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

Pressure Retaining Pieces

Bar Stock & Forgings	Serial No. Identification	Material Specification Including Type or Grade
a. ~~xxxxxx~~		
Body	N93183-36-0085	ASTM A105-71 Gr. II ASME SA105 Gr. II
Bonnet	N93407-36-0097	ASTM A105-71 Gr. II ASME SA105 Gr. II
b. ~~xxxxxxxxxxxxxxxx~~		
~~xxxxxxxxx~~ Disc Insert	N93185-37-0153	ASME SA637 Gr. 718
Nozzle	N93184-33-0070	ASME SA182 Gr. F316
Disc Holder K55484-31-0016	N89714-31-0014	AMS 5662B
Spring Washers K62858-36-0080	K62856-36-0107 K62857-36-0121	ASME SA105 Gr. II
Adjusting Bolt	N93410-33-0071	ASME SA193 Gr. B6
Spindle Point K62873-37-0135	N89720-43-0145	ASME SA564 Type 630
c. Spring K62858-36-0080	*N89722-0085	ASTM A304-66 Gr. 4161H
d. Bolting		
e. ~~xxxxxxxxxx~~ Spindle Ball K62873-37-0135	N93213-0202	Stoody #6
Thrust Bearing Adapter	N93409-32-0068	ASME SA193 Gr. B6
Bonnet Stud (BW19)	N93207-1498 thru 1509	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Bonnet Stud Nut (J87)	N93210-1009 thru 1020	ASME SA194 Gr. 2H
Inlet Stud (BW21)	N93216-1431 thru 1442	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Inlet Stud Nut (BW22)	N93218-1365 thru 1376	ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
	N93411-33-0075	ASME SA193 Gr. B6

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

N63790-00-0122

CERTIFICATE OF COMPLIANCE

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

Class 1

Date 11/5/80 Signed Crosby Valve & Gage Co. (N Certificate Holder) by [signature]

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

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company

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

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

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

PE State Massachusetts Reg. No. 14784

[1]Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 1/9, 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 for Nuclear Power Plant Components.

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

Date 1/9 1981.

Signed [signature] (Inspector) Commissions 1/9/81 (Nat'l. Bd., State, Prov. and No.)

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0563

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 10/17/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
B22-G001D	WPPSS	B22-G001D-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1

7. Description of Work: Replaced existing relief valve MS-RV-3D with new replacement relief valve. The replacement work was performed as follows:
   1) Removed existing relief valve MS-RV-3D, Serial No N63790-00-0056 with set pressure of 1195 PSIG at rated temperature of 575 F
   2) Installed new replacement relief valve Serial No N63790-00-0126 with set pressure of 1195 PSIG at rated temperature of 575 F
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0563

FORM NIS-2 (Back)

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

Test Pressure: 957/6.7 Psig — Test Temperature: 535/74.8 °F

Component Design Pressure: 1250/500 Psig — Temperature: 575/470 °F

9. Remarks: See attached NV-1 Code Data Report for new replacement relief valve MS-RV-3D, Serial No N63790-00-0126

> Component design pressure 1250 PSIG, temperature 575 F for relief valve inlet piping and component design pressure 500 PSIG, temperature 470 F for relief valve outlet piping

> Nominal operating pressure test on relief valve inlet flanged joint (Code Class 1) - test pressure 957 PSIG, test temperature 535 F

> Pneumatic test on relief valve outlet flanged joint (Code Class 3), body to bonnet flanged joint (Code Class 1), nozzle ring and adjusting ring set screw joints (Code Class 1) - test pressure 6.7 PSIG, test temperature 74.8 F

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Smith — Signed by [signature] Plant Technical Manager

Date 10/18/90 — Date 18 OCT 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/3/90 to 10/17/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 10/18/90

968-22684 (9/87)

MS-RV-3.D

PLAN No. 2-0563

Quality Stamp 10/17/90.

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

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

Q.C.-44D

DATA REPORT
Safety and Safety Relief Valves

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

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

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

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

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

5. Valve Identification MPL #B22-F013 Serial No. N63790-00-0126 Drawing No. DS-A-63790 Rev. C

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

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

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

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

Pressure Retaining Pieces

	Serial No. Identification	Material Specification Including Type or Grade
a. ~~Castings~~ Bar Stock & Forgings		
Body	N93183-36-0089	ASTM A105-71 Gr. II ASME SA105 Gr. II
Bonnet	N93407-36-0095	ASTM A105-71 Gr. II ASME SA105 Gr. II
b. ~~Bar Stock & Forgings~~		
~~Supports~~ Disc Insert	N93185-37-0159	ASME SA637 Gr. 718
Nozzle	N93184-33-0074	ASME SA182 Gr. F316
Disc Holder K55484-31-0002	N89714-31-0003	AMS 5662B
Spring Washers K62858-36-0105	K62856-36-0114 K62857-36-0101	ASME SA105 Gr. II
Adjusting Bolt	N93410-33-0074	ASME SA193 Gr. B6
Spindle Point K62873-37-0134	N89720-43-0154	ASME SA564 Type 630
c. Spring K62858-36-0105	*N89722-0056	ASTM A304-66 Gr. 4161H
d. Bolting		
e. ~~Castings~~ Spindle Ball K62873-37-0134	N93213-0201	Stoody #6
Thrust Bearing Adapter	N93409-32-0067	ASME SA193 Gr. B6
Bonnet Stud (BW19)	N93207-1534 thru 1545	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Bonnet Stud Nut (J87)	N93210-1057 thru 1068	ASME SA194 Gr. 2H
Inlet Stud (BW18)	N93216-1685 thru 1696	ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
Inlet Stud Nut (BW22)	N93218-1401 thru 1412	ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
Adjusting Bolt Button K63618-33-0079	N93411-33-0079	ASME SA193 Gr. B6

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

N63790-00-0126

CERTIFICATE OF COMPLIANCE

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

Class 1

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

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

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company.

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

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

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

PE State Massachusetts Reg. No. 14784

[1]Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 1/14, 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 for Nuclear Power Plant Components.

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

Date 1/14 19 81.

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

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0564

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 10/17/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-1A	Crosby Valve and Gage Co	N63790-00-0048	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0564

FORM NIS-2 (Back)

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

Test Pressure: 6.7 Psig — Test Temperature: 86.5 °F

*Component Design Pressure: 1175 Psig — Temperature: 575 °F

9. Remarks: None

> Pneumatic test on relief valve body to bonnet flanged joint, nozzle ring and adjusting ring set screw joints

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Krupb — Signed by [signature] Plant Technical Manager

Date 10/18/90. — Date 18 OCT 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3/26/90 to 10/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 10/18/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0565

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 10/17/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-2A	Crosby Valve and Gage Co	N63790-00-0054	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0565

FORM NIS-2 (Back)

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

Test Pressure: 6.7 Psig — Test Temperature: 86.5 °F

*Component Design Pressure: 1185 Psig — Temperature: 575 °F

9. Remarks: None

> Pneumatic test on relief valve body to bonnet flanged joint, nozzle ring and adjusting ring set screw joints

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudrip Gupta — Signed by [signature] Plant Technical Manager

Date 10/18/90 — Date 18 OCT 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/90 to 10/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 10/18/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0566

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 10/17/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-3B	Crosby Valve and Gage Co	N63790-00-0053	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert and nozzle for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert and nozzle from the valve
   2) Installed new replacement disc insert and nozzle in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0566

FORM NIS-2 (Back)

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

Test Pressure: 957/6.7 Psig — Test Temperature: 535/80.9 °F

Component Design Pressure: 1250/1185 Psig — Temperature: 575 °F

9. Remarks: None

> Component design pressure 1250 PSIG, temperature 575 F for relief valve inlet piping and component design pressure 1185 PSIG, temperature 575 F for relief valve set pressure and rated temperature

> Nominal operating pressure test on relief valve inlet flanged joint (Code Class 1) - test pressure 957 PSIG, test temperature 535 F

> Pneumatic test on relief valve outlet flanged joint (Code Class 3), body to bonnet flanged joint (Code Class 1), nozzle ring and adjusting ring set screw joints (Code Class 1) - test pressure 6.7 PSIG, test temperature 80.9 F

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Rupp — Signed by [signature] Plant Technical Manager

Date 10/18/90 — Date 18 OCT 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/90 to 10/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 10/18/90

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0567

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) — Date: 10/17/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-3C	Crosby Valve and Gage Co	N63790-00-0051	N/A	N/A	1981	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0567

FORM NIS-2 (Back)

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

Test Pressure: 6.7 Psig — Test Temperature: 80.2 °F

*Component Design Pressure: 1185 Psig — Temperature: 575 °F

9. Remarks: None

> Pneumatic test on relief valve body to bonnet flanged joint, nozzle ring and adjusting ring set screw joints

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Kuldip Singh — Signed by [signature] Plant Technical Manager

Date 10/18/90 — Date 18 OCT 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/90 to 10/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 10/18/90

968-22634 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0568

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 10/17/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-4B	Crosby Valve and Gage Co	N63790-00-0057	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert and nozzle for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert and nozzle from the valve
   2) Installed new replacement disc insert and nozzle in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0568

FORM NIS-2 (Back)

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

Test Pressure: 956/6.7 Psig — Test Temperature: 535/80.3 °F

Component Design Pressure: 1250/1195 Psig — Temperature: 575 °F

9. Remarks: None

> Component design pressure 1250 PSIG, temperature 575 F for relief valve inlet piping and component design pressure 1195 PSIG, temperature 575 F for relief valve set pressure and rated temperature

> Nominal operating pressure test on relief valve inlet flanged joint (Code Class 1) - test pressure 956 PSIG, test temperature 535 F

> Pneumatic test on relief valve outlet flanged joint (Code Class 3), body to bonnet flanged joint (Code Class 1), nozzle ring and adjusting ring set screw joints (Code Class 1) - test pressure 6.7 PSIG, test temperature 80.3 F

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Philip Singh — Signed by [signature] Plant Technical Manager

Date 10/18/90 — Date 18 OCT 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/90 to 10/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 10/18/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0569

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 10/17/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-5B	Crosby Valve and Gage Co	N63790-00-0061	N/A	N/A	1980	Replacement	Yes, Code Class 1

7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
   1) Removed existing disc insert from the valve
   2) Installed new replacement disc insert in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0569

FORM NIS-2 (Back)

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

Test Pressure: 6.75 Psig — Test Temperature: 74 °F

*Component Design Pressure: 1205 Psig — Temperature: 575 °F

9. Remarks: None

> Pneumatic test on relief valve body to bonnet flanged joint, nozzle ring and adjusting ring set screw joints

* Relief valve set pressure and rated temperature

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Vaidip Singh — Signed by _____ Plant Technical Manager

Date 10/18/90 — Date 18 OCT 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/90 to 10/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dan Hogan — Inspector's Signature — Commissions 9556W — National Board, State, and Endorsements

Date 10/18/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0570

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) — Date: 5/29/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3. (a) Work Performed by: WPPSS 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Standby Liquid Control (SLC) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1972 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SLC-V-4B	Conax Corporation	N/A	90	N/A	1975	Replacement	Yes, Code Class 1

7. Description of Work: Replaced parts for SLC-V-4B. The replacement work was performed as follows
   1) Removed Trigger Body Assembly and Inlet Fitting from the valve
   2) Installed new replacement Trigger Body Assembly and Inlet Fitting in the valve
   3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0570

FORM NIS-2 (Back)

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

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

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

9. Remarks: See attached N-@ Code Data Reports for new replacement Trigger Body Assembly Serial No 3361 and Inlet Fitting Serial No 3365

* 1220 Psig at 83.4° F pump side (inlet) flanged connection
* 1300 Psig at 83° F RPV side (outlet) flanged connection

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Ralph Gibb — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/22/90 to 5/26/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

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

PLAN NO. 2-0570 Rudolph Gugel 5/27/92

1. Manufactured and certified by CONAX BUFFALO CORPORATION, 2300 WALDEN AVENUE, Cheektowaga, NY 14225
(name and address of certificate holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY, RICHLAND, WA 99352
(name and address of purchaser)

3. Location of installation WASHINGTON NUCLEAR POWER-2, RICHLAND, WA 99352
(name and address)

4. Type N38017 (drawing no.) SA479 304SST (nat'l. spec. no.) 75KSI (tensile strength) N/A (CRN) 90 (year built)

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

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

7. Remarks: [redacted] FOR EXPLOSIVE ACTUATED VALVE REPLACEMENT KIT FOR STANDBY LIQUID CONTROL SYSTEM

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

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 3362	3362	(26)	
(2) 3363	3363	(27)	
(3) 3364	3364	(28)	
(4) 3365	3365	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

VERIFIED & ACCEPTED
LEVEL RI.

10. Design pressure 1500 psi Temp. 150 °F. Hydro. test pressure *See #7 (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 [illegible] of these is recorded at top of this form, and (4) each additional sheet shall be signed by the Certificate Holder and the ANI.

FORM N-2 (back)

Kuldip Gupta
5/1/90.

CERTIFICATE OF DESIGN

ssign specifications certified by George Ivo Skoda P. E. state CA Reg. no. 15647

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

CERTIFICATE OF SHOP COMPLIANCE

e certify that the statements made in this report are correct and that this (these) Trigger Body Sub-Assembly
nform to the rules of construction of the ASME Code, Section III.

SME Certificate of Authorization no. N-1850 Expires September 2, 1992

ate 4-20-90 Name Conax Buffalo Corporation Signed James G. Schroeder
(NPT Certificate Holder) James G. Schroeder QA Mgr.

CERTIFICATE OF SHOP INSPECTION

the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or pro-
ce of New York and employed by Hartford Steam Boiler Inspection and Insurance Co.
Hartford, Conn. have inspected these items described in this data report on 4-20-90, and state that to the
st of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code,
ction III. Each part listed has been authorized for stamping on the date shown above.
signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment
scribed in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or
operty damage or loss of any kind arising from or connected with this inspection.

ate 4-20-90 Signed [illegible] Commissions NB 7734 N
(Authorized Inspector) (Nat'l Bd (incl endorsements) state or prov. and no.)

should be inlet fitting

Kuldip Gupta
5/1/90.

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

PLAN No. 2-0570

Pg 1 of 1

1. Manufactured and certified by CONAX BUFFALO CORPORATION, 2300 WALDEN AVENUE, Cheektowaga, NY 14225 (name and address of certificate holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY, RICHLAND, WA 99352 (name and address of purchaser)

3. Location of installation WASHINGTON NUCLEAR POWER-2, RICHLAND, WA 99352 (name and address)

4. Type N-20000 (drawing no.) SA479 304SST (nat'l. spec. no.) 75KSI (tensile strength) N/A (CRN) 90 (year built)

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

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

7. Remarks: TRIGGER BODY SUB-ASSEMBLY FOR EXPLOSIVE ACTUATED VALVE REPLACEMENT KIT FOR STANDBY LIQUID CONTROL SYSTEM. PRESSURE TESTED AT 2800 PSI FOR 10 MINUTES; PARA. NB-2121(b) IS APPLICABLE TO RAM

8. Nom. thickness (in.) *See #7 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) 3358 ✓	3358	(26)	
(2) 3359 ✓	3359	(27)	
(3) 3360 ✓	3360	(28)	
(4) 3361 ✓	3361	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
		(50)	

VERIFIED & ACCEPTED

10. Design pressure 1500 psi Temp. 150 °F. Hydro. test pressure *See #7 (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

FORM N-2 (back)

5/1/90.

CERTIFICATE OF DESIGN

Design specifications certified by George Ivo Skoda P. E. state CA Reg. no. 15647

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

CERTIFICATE OF SHOP COMPLIANCE

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

ASME Certificate of Authorization no. N-1850 Expires September 2, 1992

Date 4-20-90 Name Conax Buffalo Corporation (NPT Certificate Holder) Signed James Gingerich QA Mgr.

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 Hartford Steam Boiler Inspection and Insurance Co. of Hartford, Conn. have inspected these items described in this data report on 4-20-90 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 4-20-90 Signed (Authorized Inspector) Commissions NB 7754 N (Nat'l Bd (incl endorsements) state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0573

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/13/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
FPC(1)-1	WPPSS	FPC(1)-1-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description of Work: Installed pipe nipple and pipe cap on vent connection valve FPC-V-603. The replacement and replacement work was performed as follows
   1) Installed pipe nipple and made required socket weld
   2) Installed threaded pipe cap

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0573

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Simps — Signed by [signature] Plant Technical Manager

Date 9/13/90 — Date 9-13-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/26/90 to 9/13/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 9/13/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0574

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/20/90
Sheet: 1 of 1
Unit: WNP-2

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RRC-P-1A	Bingham Willamette	B-2-1034	NB-134	N/A	1974	Replacement	Yes, Code Class 1

7. Description of Work: Replaced mechanical seal in pump RRC-P-1A. Removed existing mechanical seal out of the pump and installed reconditioned (refurbished) mechanical seal. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0574

FORM NIS-2 (Back)

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

Test Pressure: 955 Psig — Test Temperature: 532 °F

Component Design Pressure: 1650 Psig — Temperature: 575 °F

9. Remarks: See attached N-2 Code Data Report for the replacement mechanical seal Serial No 11N92-3

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Sipes — Signed by [signature] Plant Technical Manager

Date 8/20/90 — Date 8-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/9/90 to 8/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8/22/90

968-22684 (9/87)

PLAN No. 2-0574
Nuclear Supply
6/13/90

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 1 Mat'l Id. 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, Code No. NONE Class 1

3. Remarks To prevent liquids from escaping from pump. (Pressure Boundary Part) (OR) parts consist of:
(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] Commission NB 5036 OR 5555
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

S/N 11N92-3

Sweb 4/18/87

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. _____ (Kind & Spec. No.) (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	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 cast and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure[2] 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. _____ (Kind & Spec. No.) (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	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a) Top, bottom, ends								
(b) Channel								

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

14. Design pressure[2] _____ 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	Pads 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 _____ (Shop or Field)

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

S.O. 11N92-3
ITEM ASME-Code Data Report
PAGE 3

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0576

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 7/13/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1972 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-V-24A	Anchor Darling	2N-407	N/A	N/A	1975	Replacement	Yes, Code Class 2

7. Description of Work: Replaced body to bonnet nuts for valve RHR-V-24A. The replacement work was performed as follows:
   1) Drilled holes in the replacement nuts
   2) Removed existing nuts and replaced them with new nuts with holes.

   > Note: Holes were drilled in the nuts to provide a method of captivating the valve body to bonnet nuts

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0576

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Philip Swift — Signed by [signature] Plant Technical Manager

Date 7/13/90 — Date 7-13-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/30/90 to 7/13/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 7/13/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0577

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/26/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1972 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-V-24B	Anchor Darling	2N-381	N/A	N/A	1975	Replacement	Yes, Code Class 2

7. Description of Work: Replaced body to bonnet nuts for valve RHR-V-24B. The replacement work was performed as follows:
   1) Drilled holes in the replacement nuts
   2) Removed existing nuts and replaced them with new nuts with holes.

   > Note: Holes were drilled in the nuts to provide a method of captivating the valve body to bonnet nuts

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0577

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Philip Sipes — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/30/90 to 5/31/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 5/31/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0578

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced valve CIA-V-21. The replacement work was performed as follows
   1) Cut and removed section of existing piping material
   2) Installed new replacement piping material and valve
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0578

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-21, Serial No ATZ2-11

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Gaupb — Signed by [signature] Plant Technical Manager

Date 6/12/90. — Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/12/90

968-22684 (9/87)

PLAN NO. 2-0578
Kuldip Gupta
6/11/90.

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

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

1. Manufactured and certified by Kerotest Mfg. Corp., 2525 Liberty Ave., Pgh, Pa 15222 (C159177)
   (name and address of N Certificate Holder)
2. Manufactured for Washington Public Pwr., Supply System, Richland, WA 99352-0968
   (name and address of Purchaser or Owner)
3. Location of installation Washington Public Pwr Supply System, North Power Plant Loop, Richland, WA 99352
   (name and address)
4. Model No., Series No., or Type Check Drawing WPP-30606GS-(2) Rev. A CRN N/A
5. ASME Code, Section III, Division 1: 1986 (edition) N/A (addenda date) 2 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 3/4" (in.) Outlet size 3/4" (in.)
7. Material: Body SA105 ~~Bonnet~~ cover SA105 Disk SA479,316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) ~~Bonnet~~ Cover Serial No.	(e) Disk Serial No.
ATZ2-11	N/A	ATZ2-11	GAS	AQQ

C1A-V-21, S/N ATZ2-11

Kuldip Gupta
4/23/90

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

(12/86) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

F 4-17-92

CIA-V-21, S/N A7Z2-11

Rudolph Gupta. 4/23/90

FORM NPV-1 (back)

8. Remarks _____

9. Design conditions 1480 (pressure) psi 100 (temperature) °F or valve pressure class 600# (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

Design Report certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. 1902 Expires 4-25-92

Date 04/12/90 Name Kerotest Mfg., Corp. (N Certificate Holder) Signed [illegible] (authorized representative)

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 Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4-12, 19 90, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 4-12-90 Signed [illegible] (Authorized Inspector) Commissions PA2052N (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

[illegible] 4-17-90

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0579

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-2A	WPPSS	CIA(5)-2A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced valve CIA-V-31A. The replacement work was performed as follows
   1) Cut and removed section of existing piping material
   2) Installed new replacement piping material and valve
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0579

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-31A, Serial No AQF1-50

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Smith — Signed by [signature] Plant Technical Manager

Date 6/12/90 — Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/12/90

968-22684 (9/87)

PLAN NO. 2-0579

CIA-V-31A, S/N AQF1-50.
CIA-V-31B, S/N ASL5-62
Rudolph Supt
4/23/90

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

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

Pg. 1 of 1

1. Manufactured and certified by Kerotest Mfg. Corp., 2525 Liberty Ave., Pgh, Pa 15222 (C159177)
   (name and address of N Certificate Holder)
2. Manufactured for Washington Public Pwr., Supply System, Richland, WA 99352-0968
   (name and address of Purchaser or Owner)
3. Location of installation Washington Public Pwr Supply System, North Power Plant Loop, ~~Richland, WA 99352~~
   (name and address)
4. Model No., Series No., or Type Check Drawing WPP-30604GS-(2) Rev. A CRN N/A
5. ASME Code, Section III, Division 1: 1986 (edition) N/A (addenda date) 2 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1/2" (in.) Outlet size 1/2" (in.)
7. Material: Body SA105 ~~Bonnet~~ Cover SA105 Disk SA479,316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) ~~Bonnet~~ Cover Serial No.	(e) Disk Serial No.
AQF1-50	N/A	AQF1-50	GAS	AQQ
ASL5-62	N/A	ASL5-62	GAS	AQQ

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

(12/86) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

E.
4-17-90

CIA-V-31A, S/N AYF1-[illegible]
CIA-V-31B, S/N ASL5-62.
Kuldip Singh
4/23/90.

FORM NPV-1 (back)

8. Remarks _____

9. Design conditions 1480 (pressure) psi 100 (temperature) °F or valve pressure class 600# (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Lakatos P.E. State PA Reg. no. 35758-E
Design Report certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.
N Certificate of Authorization No. 1902 Expires 4-25-92

Date 04/12/90 Name Kerotest Mfg., Corp (N Certificate Holder) Signed [illegible] (authorized representative)

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 Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4-12, 19 90, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 4-12-90 Signed [illegible] (Authorized Inspector) Commissions PA2052N (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

4-17-90

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0580

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-2B	WPPSS	CIA(5)-2B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced valve CIA-V-31B. The replacement work was performed as follows
   1) Cut and removed section of existing piping material
   2) Installed new replacement piping material and valve
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0580

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-31B, Serial No ASLS-62

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 6/12/90 Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556W
Inspector's Signature — National Board, State, and Endorsements

Date 6/12/90

968-22684 (9/87)

PLAN NO. 2-0550.

CIA-V-31A, S/N AQF1-50.
CIA-V-31B, S/N ASL5-62
Rudolph Sup
4/23/90

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

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

Pg. 1 of 1

1. Manufactured and certified by Kerotest Mfg. Corp., 2525 Liberty Ave., Pgh, Pa 15222 (C159177)
(name and address of N Certificate Holder)

2. Manufactured for Washington Public Pwr., Supply System, Richland, WA 99352-0968
(name and address of Purchaser or Owner)

3. Location of installation Washington Public Pwr Supply System, North Power Plant Loop, ~~Richland, WA 99352~~
(name and address)

4. Model No., Series No., or Type Check Drawing WPP-30604GS-(2) Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1986 (edition) N/A (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 1/2" (in.) Outlet size 1/2" (in.)

7. Material: Body SA105 ~~Bonnet~~ Cover SA105 Disk SA479,316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) ~~Bonnet~~ Cover Serial No.	(e) Disk Serial No.
AQF1-50	N/A	AQF1-50	GAS	AQQ
ASL5-62	N/A	ASL5-62	GAS	AQQ

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

(12/86) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

4-17-90

CIA-V-31B, S/N ASLS-6C

Kuldip Singh
4/23/90.

FORM NPV-1 (back)

8. Remarks _____

9. Design conditions 1480 (pressure) psi 100 (temperature) °F or valve pressure class 600# (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Lakatos P.E. State PA Reg. no. 35758-E
Design Report certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. 1902 Expires 4-25-92

Date 04/12/90 Name Kerotest Mfg., Corp (N Certificate Holder) Signed [signature] (authorized representative)

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 Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4-12, 19 90, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 4-12-90 Signed [signature] (Authorized Inspector) Commissions PA2052N (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

4-17-90

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0581

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/3/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-1A	WPPSS	CIA(5)-1A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description of Work: Replaced valve CIA-V-41A. The replacement work was performed as follows
   1) Cut and removed section of existing piping material
   2) Installed new replacement piping material and valve
   3) Made required socket welds

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0581

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-41A, Serial No ATZ2-48

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulaip Singh — Signed by [signature] Plant Technical Manager

Date 6/3/90 — Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 5/28/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dan Hogarth — Inspector's Signature — Commissions 9556W — National Board, State, and Endorsements

Date 6/4/90

968-22684 (9/87)

CIA-V-41A, S/N ATZ2-48
CIA-V-41B, S/N ATZ2-50

PLAN NO. 2-0581

Rudolph Sup 5
4/23/90

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

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

Pg. 1 of 1

1. Manufactured and certified by Kerotest Mfg. Corp., 2525 Liberty Ave., Pgh, Pa 15222 (C159177)
   (name and address of N Certificate Holder)
2. Manufactured for Washington Public Pwr., Supply System, Richland, WA 99352-0968
   (name and address of Purchaser or Owner)
3. Location of installation Washington Public Pwr Supply System, North Power Plant Loop, Richland, WA 99352
   (name and address)
4. Model No., Series No., or Type Check Drawing WPP-30604GS-(3) Rev. A CRN N/A
5. ASME Code, Section III, Division 1: 1986 (edition) N/A (addenda date) 3 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1/2" (in.) Outlet size 1/2" (in.)
7. Material: Body SA105 ~~Bonnet~~ cover SA105 Disk SA479,316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) ~~Bonnet~~ cover Serial No.	(e) Disk Serial No.
ATZ2-48	N/A	ATZ2-48	GAS	AQQ
ATZ2-50	N/A	ATZ2-50	GAS	AQQ

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

(12/86) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

F 4-17-90

CIA-V-41B, S/N ATZZ-50

Kuldip Gupta
4/23/90

FORM NPV-1 (back)

8. Remarks _____

9. Design conditions 1480 (pressure) psi 100 (temperature) °F or valve pressure class 600# (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

Design Report certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. 1902 Expires 4-25-92

Date 04/12/90 Name Kerotest Mfg., Corp. (N Certificate Holder) Signed [illegible] (authorized representative)

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 Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4-12, 19 90, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 4-12-90 Signed [illegible] (Authorized Inspector) Commissions PA 20532 (Nat'l. Bd. incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

4-17-90

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0582

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/3/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-1B	WPPSS	CIA(5)-1B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description of Work: Replaced valve CIA-V-41B. The replacement work was performed as follows
   1) Cut and removed section of existing piping material
   2) Installed new replacement piping material and valve
   3) Made required socket welds

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0582

FORM NIS-2 (Back)

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

Test Pressure: Psig Test Temperature: °F

Component Design Pressure: Psig Temperature: °F

9. Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-41B, Serial No ATZ2-50

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulidip Singh Signed by [signature]

Plant Technical Manager

Date 6/3/90. Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 5/28/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556W

Inspector's Signature National Board, State, and Endorsements

Date 6/4/90

968-22684 (9/87)

CIA-V-41A, S/N ATZZ-48
CIA-V-41B, S/N ATZZ-50

PLAN NO. 2-0582

Kuldip Singh 4/23/90

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

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

Pg. 1 of 1

1. Manufactured and certified by Kerotest Mfg. Corp., 2525 Liberty Ave., Pgh, Pa 15222 (C159177)
(name and address of N Certificate Holder)

2. Manufactured for Washington Public Pwr., Supply System, Richland, WA 99352-0968
(name and address of Purchaser or Owner)

3. Location of installation Washington Public Pwr Supply System, North Power Plant Loop, Richland, WA 99352
(name and address)

4. Model No., Series No., or Type Check Drawing WPP-30604GS-(3) Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1986 (edition) N/A (addenda date) 3 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 1/2" (in.) Outlet size 1/2" (in.)

7. Material: Body SA105 ~~Bonnet~~ cover SA105 Disk SA479,316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) ~~Bonnet~~ cover Serial No.	(e) Disk Serial No.
ATZZ-48	N/A	ATZZ-48	GAS	AGG
ATZZ-50	N/A	ATZZ-50	GAS	AGG

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

(12/86) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

F 2-17-90

CIA-V-41A, S/N A1EZ
CIA-V-41B, S/N ATEZ-
Guldip Gupta
4/23/90

FORM NPV-1 (back)

8. Remarks

9. Design conditions 1480 (pressure) psi 100 (temperature) °F or valve pressure class 600# (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Lakatos P.E. State PA Reg. no. 35758-E
Design Report certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. 1902, Expires 4-25-92

Date 04/12/90 Name Kerotest Mfg., Corp. (N Certificate Holder) Signed [signature] (authorized representative)

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 Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4-12, 19 90, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 4-12-90 Signed [signature] (Authorized Inspector) Commissions PA 22532 N (Nat'l. Bd. incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

4-17-90

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0583

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Sample Radioactive (PSR) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-X77A/1	Target Rock	1	N/A	N/A	1982	Repair/ Replacement	Yes, Code Class 1

7. Description of Work: Performed work on valve PSR-V-X77A/1 . The work was performed as follows
   1) Cut body to bonnet seal weld
   2) Removed valve internals for troubleshooting
   3) Reinstalled valve internals and installed new replacement disc
   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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0583

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 1364

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 6/25/90 Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 6/25/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W
Inspector's Signature — National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

PLAN No. 2-0583

Rudolf Supt 6/25/90.

FORM N-2 N OMPT 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 Target Rock Corp., 1966E Broadhollow Rd., E. Farmingdale, NY 11735 (name and address of certificate holder)

2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968 (name and address of purchaser)

3. Location of installation WNP-2, Richland WA, 99352 (name and address)

4. Type 202539-1, Rev. C (drawing no.) SA-564 GR 630 (mat'l. spec. no.) 140,000 Min. (tensile strength) N/A (CRN) 1986 (year built)

5. ASME Code, Section III: 1974 (edition) W 1975 (addenda) 1 (class) N/A (Code Case No.)

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

7. Remarks: Spare Parts for a completed valve assembly (Main Disc. 82M-001)

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

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1)	1351	N/A	(26)		
(2)	1353	N/A	(27)		
(3)	1355	N/A	(28)		
(4)	1364	N/A	(29)		
(5)			(30)		
(6)			(31)		
(7)			(32)		
(8)			(33)		
(9)			(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)		
(22)			(47)		
(23)			(48)		
(24)			(49)		
(25)			(50)		

10. Design pressure N/A psi Temp. N/A °F. Hydro. test pressure 4285 PSI (when applicable) at temp. °F. < 100°F

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

(6/86)-1 This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

Serial Nos 1351, 1353, 1355, 1364. Mfr. Serial No. See Front

CERTIFICATE OF DESIGN Buildip Sup 5 5/4/87

Design specifications certified by N/A (when applicable) P. E. state N/A Reg. no. N/A

Design report certified by N/A (when applicable) P. E. state N/A Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. 1948 Expires 12-9-86

Date 5-5-86 Name Target Rock Corporation (NPT Certificate Holder) Signed G. Abruzzo, Q.A. Manager

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of New York and employed by Commercial Union Insurance of Boston, Mass. have inspected these items described in this data report on 5/5/86 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 5/5/86 Signed William J. Ribard (Authorized Inspector) NEW YORK STATE COMMISSION NO. 228 Commissioned in Fire, Life & Cont. (Nat'l Bd. (and endorsement state or prov. and no.)

2 2 5 7 2 1 0 6 2

FOR INVESTIGATION ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0584

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/20/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Sample Radioactive (PSR) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-X77A/2	Target Rock	4	N/A	N/A	1982	Repair/ Replacement	Yes, Code Class 1

7. Description of Work: Performed work on valve PSR-V-X77A/2. The work was performed as follows
   1) Cut and removed support material to facilitate work on the valve
   2) Cut body to bonnet seal weld
   3) Removed valve internals for troubleshooting
   4) Reinstalled valve internals and installed new replacement disc
   5) Installed bonnet into valve body and torqued it to the required torque value
   6) Made body to bonnet seal weld
   7) Performed PT examination on the final seal weld. PT examination results acceptable
   8) Reinstalled support material and made required welds
   9) Performed MT examination on the final welds. MT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0584

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 1351

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dilip Gupta — Signed by [signature] Plant Technical Manager

Date 8/20/90 — Date 8-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 8/21/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8/21/90

968-22684 (9/87)

PLAN NO 2-0584

Quality Supply 8/13/90.

FORM N-2 N OPT 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

Pg 1 of 1

1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd., E. Farmingdale, NY 11735 (name and address of certificate holder)

2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968 (name and address of purchaser)

3. Location of installation WNP-2, Richland WA, 99352 (name and address)

4. Type 202539-1, Rev. C (drawing no.) SA-564 GR 630 (mat'l. spec. no.) 140,000 Min. (tensile strength) N/A (CRN) 1986 (year built)

5. ASME Code, Section III: 1974 (edition) W 1975 (addenda) 1 (class) N/A (Code Case no.)

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

7. Remarks: Spare Parts for a completed valve assembly (Main Disc. 82M-001)

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

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 1351	N/A	(26)	
(2) 1353	N/A	(27)	
(3) 1355	N/A	(28)	
(4) 1364	N/A	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. test pressure 4285 PSI (when applicable) at temp. °F. < 100°F

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

(6/86)-1

This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

FORM N-2 (back)

Serial Nos 1351, 1353, 1355, 1364. Mfr. Serial No. See Front

CERTIFICATE OF DESIGN Buildup Sup 5

Design specifications certified by N/A (when applicable) P. E. state N/A Reg. no. N/A

Design reports certified by N/A (when applicable) P. E. state N/A Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. 1948 Expires 12-8-86

Date 5-5-86 Name Target Rock Corporation (NPT Certificate Holder) Signed G. Abruzzo, Q.A. Manager (authorized representative)

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 Commercial Union Insurance of Boston, Mass. have inspected these items described in this data report on 5/5/86 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 5/5/86 Signed William D. Roland (Authorized Inspector) Commission NEW YORK STATE COMMISSION NO. 2288 (Nat'l Bd. and endorsements, state or prov., and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0585

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Sample Radioactive (PSR) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-X77A/3	Target Rock	3	N/A	N/A	1982	Repair/ Replacement	Yes, Code Class 1

7. Description of Work: Performed work on valve PSR-V-X77A/3. The work was performed as follows
   1) Cut body to bonnet seal weld
   2) Removed valve internals for troubleshooting
   3) Reinstalled valve internals and installed new replacement disc
   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) Reinstalled support for the valve and made required welds
   8) Performed MT examination on the final welds. MT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0585

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 1355

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Eugh — Signed by [signature] Plant Technical Manager

Date 6/25/90 — Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 6/25/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

PLAN NO. 2-0585

FORM N-2 N OMPT 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

Baldip Gupta 6/22/88

1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd., E. Farmingdale, NY 11735 (name and address of certificate holder)

2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968 (name and address of purchaser)

3. Location of installation WNP-2, Richland WA, 99352 (name and address)

4. Type 202539-1, Rev. C (drawing no.) SA-564 GR 630 (mat'l. spec. no.) 140,000 Min. (tensile strength) N/A (CRN) 1986 (year built)

5. ASME Code, Section III: 1974 (edition) W 1975 (addenda) 1 (class) N/A (Code Case no.)

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

7. Remarks: Spare Parts for a completed valve assembly (Main Disc, 82M-001)

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

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1)	1351	N/A	(26)		
(2)	1353	N/A	(27)		
(3)	1355	N/A	(28)		
(4)	1364	N/A	(29)		
(5)			(30)		
(6)			(31)		
(7)			(32)		
(8)			(33)		
(9)			(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)		
(22)			(47)		
(23)			(48)		
(24)			(49)		
(25)			(50)		

10. Design pressure N/A psi Temp. N/A °F. Hydro. test pressure 4285 PSI (when applicable) at temp. °F. < 100°F

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

(6/86)-1 This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Serial Nos 1351, 1353, 1355, 1364. Mfr. Serial No. See Front

CERTIFICATE OF DESIGN Buildup Sys 5

Design specifications certified by N/A (when applicable) P. E. state 5/4/89 N/A Reg. no. N/A

Design report certified by N/A (when applicable) P. E. state N/A Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. 1948 Expires 12-8-86

Date 5-5-86 Name Target Rock Corporation (NPT Certificate Holder) Signed G. Abruzzo, Q.A. Manager (Authorized Representative)

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 Commercial Union Insurance of Boston, Mass. have inspected these items described in this data report on 5/5/86 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 5/5/86 Signed William J. Kelbert (Authorized Inspector) NEW YORK STATE COMMISSION NO. 2283 Commissions (Nat'l Bd. and endorsements) state or prov. and no.

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FORM NVB 1 (Back)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0586

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/20/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Sample Radioactive (PSR) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-X77A/4	Target Rock	2	N/A	N/A	1982	Repair/ Replacement	Yes, Code Class 1

7. Description of Work: Performed work on valve PSR-V-X77A/4 . The work was performed as follows
   1) Cut and removed support material to facilitate work on the valve
   2) Cut body to bonnet seal weld
   3) Removed valve internals for troubleshooting
   4) Reinstalled valve internals and installed new replacement disc
   5) Installed bonnet into valve body and torqued it to the required torque value
   6) Made body to bonnet seal weld
   7) Performed PT examination on the final seal weld. PT examination results acceptable
   8) Reinstalled support material and made required welds
   9) Performed MT examination on the final welds. MT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0586

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 1353

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Grips — Signed by [signature] Plant Technical Manager

Date 8/20/90 — Date 8-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 8/21/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8/21/90

968-22684 (9/87)

PLAN NO. 2-0586
Rudip Gupta
8/13/80.

FORM N-2 NONCERTIFICATE 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

Pg 1 of 1

1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd., E. Farmingdale, NY 11735 (name and address of certificate holder)

2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968 (name and address of purchaser)

3. Location of installation WNP-2, Richland WA, 99352 (name and address)

4. Type 202539-1, Rev. C (drawing no.) SA-564 GR 630 (mat'l. spec. no.) 140,000 Min. (tensile strength) N/A (CRN) 1986 (year built)

5. ASME Code, Section III: 1974 (edition) W 1975 (addenda) 1 (class) N/A (code case no.)

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

7. Remarks: Spare Parts for a completed valve assembly (Main Disc, 82M-001)

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

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 1351	N/A	(26)	
(2) 1353	N/A	(27)	
(3) 1355	N/A	(28)	
(4) 1364	N/A	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi Temp. N/A °F. Hydro. test pressure 4285 PSI (when applicable) at temp. °F. < 100°F

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

(E/86)-1 This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

FORM N-2 (back)

Serial Nos 1351, 1353, 1355, 1364. Mfr. Serial No. See Front

CERTIFICATE OF DESIGN Guldip Sing 5/9/86

Design specifications certified by N/A P. E. state N/A Reg. no. N/A
(when applicable)

Design reports certified by N/A P. E. state N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. 1943 Expires 12-31-86

Date 5-5-86 Name Target Rock Corporation (NPT Certificate Holder) Signed G. Abruzzo, Q.A. Manager (Authorized Representative)

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 Commercial Union Insurance of Boston, Mass. have inspected these items described in this data report on 5/5/86 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 5/5/86 Signed William D. Roland (Authorized Inspector) Commission NEW YORK STATE COMMISSION NO. 2288 (Nat'l Bd. and endorsements, state or prov. and no.)

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0587

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/6/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Instrument (PI) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI-VX-265	Target Rock	10	N/A	N/A	1980	Repair And Replacement	Yes, Code Class 2

7. Description of Work: Repaired valve body to bonnet seal weld areas and replaced main disc in valve PI-VX-265. The repair/replacement work was performed as follows:
   1) Cut valve body to bonnet seal weld
   2) Prepped valve body seal weld surface for rewelding
   3) Weld built up the valve bonnet. Machined the weld built up area
   4) Performed PT examination on prepped area of the body and machined area of the bonnet. PT examination results acceptable
   5) Machined spacer ring for valve body to bonnet joint. Performed PT examination on the machined surface. PT examination results acceptable
   6) Installed new replacement main disc in the valve
   7) Installed spacer ring and bonnet in the valve body. Made required welds
   8) Performed PT examination on the final welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0587

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement main disc Serial No. 760

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Philip Smith — Signed by [signature] Plant Technical Manager

Date 8/6/90 — Date 8-7-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5/3/90 to 8/8/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8/8/90

968-22684 (9/87)

PLAN - No. 2-0587

Rudolf Smith 8/6/90.

FORM N-2 CERTIFICATE HOLDER'S DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES

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

Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd, E. Farmingdale, NY 11735
(name and address of NPT Certificate Holder)

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

3. Location of installation Washington Nuclear Plant 2, Richland, WA
(name and address)

4. Type 202337-1 Rev. E (drawing no.) SA-479 316 (mat'l. spec. no.) 75 KSI (minimum strength) N/A (CRN) 1989 (year built)

5. ASME Code, Section III: 1974 (edition) W 75 (addenda date) 2 (class) N/A (Code Case no.)

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

7. Remarks: Spare Parts for a completed valve, Models 79TT-001, 83TT-001

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

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1)	779	N/A	(26)		
(2)	816	N/A	(27)		
(3)	788	N/A	(28)		
(4)	824	N/A	(29)		
(5)	782	N/A	(30)		
(6)	760	N/A	(31)		
(7)	762	N/A	(32)		
(8)	N/A	N/A	(33)		
(9)			(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)		
(22)			(47)		
(23)			(48)		
(24)			(49)		
(25)			(50)		

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure 165 (when applicable) at temp. °F AMB

*Supplemental information in the 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 the number of sheets is recorded at the top of this form.

(12/86) This form (S00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

S/N's 779, 816, 788, 824, 782, 760, 762

Philip Sayers 4/4/89

See Front

Design specifications certified by _____ P.E. State _____ Reg. no. _____

Design report* certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. 1948 Expires 12-9-89

Date 4/4/89 Name Target Rock Corporation (NPT Certificate Holder) Signed E. Bajada

E. Bajada Q.A. Manager

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Commercial Union Insurance Company of Boston, Mass. have inspected these items described in this Data Report on 4/4/89, 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 4/4/89 Signed William A. Roland (Authorized Inspector) Commissions NEW YORK STATE COMMISSION NO. 2288

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0590

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/18/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: High Pressure Core Spray (HPCS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1971 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
HPCS-V-23	Anchor Darling	2N-236	N/A	N/A	1974	Repair	Yes, Code Class 2

7. Description of Work: Made disc to disc nut fillet weld. Performed PT examination on the final weld. PT examination results acceptable. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0590

FORM NIS-2 (Back)

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

Test Pressure: 630 Psig — Test Temperature: 75 °F

Component Design Pressure: 2160 Psig — Temperature: 100 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Quidip Smith — Signed by [signature] Plant Technical Manager

Date 9/18/90. — Date 9-18-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/30/90 to 5/26/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 9/18/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0591

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/1/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Reactor Feedwater (RFW) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RFW(1)-4A	WPPSS	RFW(1)-4A-P1	N/A	N/A	1983	Replacement	Yes, Code Class NF(1)
RFW(1)-4B	WPPSS	RFW(1)-4B-P1	N/A	N/A	1983	Replacement	Yes, Code Class NF(1)

7. Description of Work: Replaced existing snubbers with rigid struts. The replacement work was performed as follows
   1) Removed existing snubbers
   2) Installed rigid struts
   3) Performed Preservice Inspections (PSI). PSI results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0591

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached NF-2 Code Data Reports for the following

Support No	Serial No
RFW-148	NA-2765-005-1
RFW-164	NA-2765-005-2

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Smith — Signed by [signature] Plant Technical Manager

Date 6/1/90 — Date 6-1-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/23/90 to 6/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/1/90

968-22684 (9/87)

FORM NF-2 NPT CERTIFICATE HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORT*
As Required by the Provisions of the ASME Code Rules, Section III, Division 1

PLAN No 2-0591
Rudolf Supp.
5/31/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)

3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

4.

	(a) Part Serial No.	(b) Canadian Registration No.	(c) Part Drawing No.	(d) Description of Part	(e) Class	(f) National Board No.	(g) Year Built
(1)	*	N/A	NPS-130	MODIFIED	1	N/A	1990
(2)			REV.1	SWAY STRUT			
(3)				ASSEMBLY			
(4)				SRM-24M-SO			
(5)							
(6)	*NA-2765-005-1.						
(7)	*NA-2765-005-2						
(8)							
(9)							
(10)							

VERIFIED & ACCEPTED D. Hodge 5-1-90
LEVEL III R.I. Inspector Date

30 PAGES

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971, Addenda WINTER 1973 (Date), Code Case no. N247.

Date APRIL 26 19 90. Signed NPS INDUSTRIES, INC. (NPT Certificate Holder) by SANDY REYNOLDS

Our ASME Certificate of Authorization No. N-2689 to use the NPT (NPT) Symbol expires JULY 12, 1991 (Date)

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 TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS have inspected the parts for the component supports described in this Data Report on 4-26, 19 90, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts 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 4/26/90

Signed Lane G Powell Commissions Tex803
(Nat'l Board, State, Province, and No.)

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on items 1-4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0592

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/18/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 71/77 Edition with Summer 71/Winter 77 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-HX-2B	A/S&K	79284	599	N/A	1980	Replacement	Yes, Code Class 2

7. Description of Work: Replaced piping/tubing for RHR-HX-2B seal cooler outlet (tube side). The replacement work was performed as follows
   1) Cut and removed section of existing tubing
   2) Installed new replacement pipe and tubing
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable
   5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

A/S&K= Ametek/Schutte and Koerting

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0592

FORM NIS-2 (Back)

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

Test Pressure: 130 Psig
Component Design Pressure: 300 Psig
Test Temperature: 70 °F
Temperature: 200 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable
Certificate Authorization No.: Not applicable
Expiration Date: Not Applicable

Prepared by Rudolph Kupb

Signed by [signature]
Plant Technical Manager

Date 9/18/90

Date 9-18-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 5/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 9/18/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0593

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/1/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Instrument (PI) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S-X72f	JCI	PI(1)-4S-X72f	N/A	N/A	1983	Repair	Yes, Code Class 2

7. Description of Work: Removed and reinstalled valve PI-EFC-X72f. The work was performed as follows
   1) Cut existing socket welds
   2) Prepped valve socket ends. Performed PT examination on the prepped socket ends. Pt examination results acceptable
   3) Reinstalled valve and made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0593

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: 3600 Psig — Temperature: 100 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 6/1/90 Date 6-1-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/01/90 to 6/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556W
Inspector's Signature — National Board, State, and Endorsements

Date 6/1/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0594

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/1/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1972 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-HX-1B	Delta Southern Co	35009-74-2	3490	N/A	1974	Repair	Yes, Code Class 2

7. Description of Work: Plugged tubes in RHR-HX-1B heat exchanger. The repair work was performed as follows
   1) Machined the tube plugs to the required dimensions
   2) Installed tube plugs and made required seal welds
   3) Performed PT examination on the final seal welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0594

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Rivol — Signed by [signature] Plant Technical Manager

Date 6/1/90 — Date 6-1-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/3/90 to 5/28/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 6/1/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0595

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/29/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: High Pressure Core Spray (HPCS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
HPCS-V-84	Borg Warner	13371	N/A	N/A	1976	Replacement	Yes, Code Class 1

7. Description of Work: Replaced stem/disc assembly for valve HPCS-V-84. The replacement work was performed as follows:
   1) Removed stem/disc assembly from spare valve Serial No 28701
   2) Installed stem/disc assembly removed from spare valve Serial No 28701 in valve HPCS-V-84

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0595

FORM NIS-2 (Back)

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

Test Pressure: Psig Test Temperature: °F

Component Design Pressure: Psig Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Philip Sipes Signed by [signature]
Plant Technical Manager

Date 5/30/90 Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/16/90 to 5/30/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0596

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 5/23/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Reactor Water Cleanup (RWCU) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RWCU-V-1	Velan	0039	N/A	N/A	1976	Replacement	Yes, Code Class 1

7. Description of Work: Replaced valve RWCU-V-1 leak off connection pipe plug. The replacement work was performed as follows:
   1) Machined pipe plug to the required dimensions
   2) Performed PT examination on the machined surfaces to upgrade the material from ASME Section III, Code Class 2 to ASME Section III, Code Class 1. PT examination results acceptable
   3) Installed pipe plug and made required weld
   4) Performed PT examination on the final weld. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0596

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Ruwip Singh — Signed by [signature] Plant Technical Manager

Date 5/30/90 — Date 5-30-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/7/90 to 5/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 5/30/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0597

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/1/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1972 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-V-24B	Anchor Darling	2N-381	N/A	N/A	1975	Replacement	Yes, Code Class 2

7. Description of Work: Installed new replacement pipe plug for valve RHR-V-24B bonnet leak off connection

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0597

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulaip Gupta — Signed by [signature] Plant Technical Manager

Date 6/1/90 — Date 6-1-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/8/90 to 5/28/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 6/1/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0599

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/4/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced nut for CIA-FLX-1K flanged joint

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0599

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Gulidip Singh — Signed by [signature] Plant Technical Manager

Date 6/4/90 — Date 6-4-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/23/90 to 6/5/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/5/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0600

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/18/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Containment Supply Purge (CSP) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CSP(1)-1A	WPPSS	CSP(1)-1A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced one (1) stud and one (1) nut for valve CSP-V-2 inlet flange joint. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0600

FORM NIS-2 (Back)

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

Test Pressure: atmospheric

Test Temperature: ambient

Component Design Pressure: 45 Psig

Temperature: 340 °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pradip Gupta

Signed by [signature]
Plant Technical Manager

Date 9/18/90

Date 9-18-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/14/90 to 5/26/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 9/18/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0604

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Containment Vessel, Penetration X-53
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1972 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
Penet X-53	PDM	12764	790	N/A	1976	Repair	Yes, Code Class 2

7. Description of Work: Drilled and tapped holes in Containment Penetration X-53 square cut pipe end to install removeable (bolted) type debris screen

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0604

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Suiß — Signed by [signature] Plant Technical Manager

Date 6/12/90. — Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/26/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/12/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0605

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(1)-4C	WPPSS	MS(1)-4C-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Removed and capped test connection for the pressure transducer. The replacement work was performed as follows
   1) Cut and removed the test connection assembly
   2) Installed new replacement piping material
   3) Made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0605

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Supis — Signed by [signature] Plant Technical Manager

Date 6/26/90 — Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/23/90 to 6/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0607

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Control Rod Drive (CRD) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD-V-102	Dragon	DL10005	790	N/A	1977	Replacement	Yes, Code Class 2

7. Description of Work: Replaced stem/disc assembly. Removed stem/disc assembly from the valve and installed new replacement stem/disc assembly

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0607

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Singh — Signed by [signature] Plant Technical Manager

Date 6/12/90. — Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/23/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/12/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0608

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/1/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: Bechtel Construction, Incorporation
   (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-120A	Borg Warner	20236	N/A	N/A	1974	Replacement	Yes, Code Class 2

7. Description of Work: Replaced stem/disc assembly for valve MS-V-120A. The replacement work was performed as follows
   1) Removed existing stem/disc assembly from the valve
   2) Installed new replacement stem/disc assembly in the valve

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0608

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement stem/disc assembly Serial No 207584-1

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]

Plant Technical Manager

Date 6/1/90 Date 6-1-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/25/90 to 6/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

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

Date 6/1/90

968-22684 (9/87)

PLAN NO. 2.0603
Rudolf Sapi
5/31/90

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

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

1. Manufactured and certified by EN/IP INTERNATIONAL INC. PUMP DIV. LOS ANGELES OPERATIONS 2300 E. VERNON AVE. VERNON CA. 90058
(name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM NORTH POWER PLANT LOOP RICHLAND, WASHINGTON 99352
(name and address of purchaser)

3. Location of installation WASHINGTON PUBLIC POWER SUPPLY SYSTEM NORTH POWER PLANT LOOP RICHLAND, WASHINGTON 99352
(name and address)

4. Type

(drawing no.)	(mat'l. spec. no.)	(tensile strength)	(CRN)	(year built)
7G148 REV.B	STELLITE #6	N/A	N/A	1990

5. ASME Code, Section III:

(edition)	(addenda date)	(class)	(Code Case no.)
1971	WINTER 1973	2	N/A

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

7. Remarks: EN/IP JOB NO. 891-S-2533 PART NAME- STEM AND DISC ASSEMBLY

HYDROSTATIC TESTING NOT PERFORMED. IDENTIFICATION IS PER NCA-8230 IN LIEU OF NAMEPLATE.

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

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1)	207584-1	N/A	(26)		
(2)	207584-2	N/A	(27)		
(3)	207584-3	N/A	(28)		
(4)			(29)		
(5)			(30)		
(6)			(31)		
(7)			(32)		
(8)			(33)		
(9)			(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)		
(22)			(47)		
(23)			(48)		
(24)			(49)		
(25)			(50)		

10. Design pressure 3600 psi. Temp. 100 °F. Hydro. test pressure N/A (when applicable) at temp. °F

*Supplemental information in the 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 the number of sheets is recorded at the top of this form.

(12/86)

FORM N-2 (back) 5/3/90

207584-3

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

Design specifications certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

Design report* certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) STEM AND DISC ASSEMBLY conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1131 Expires JUNE 16, 1990

Date 3 MAY '90 Name BW/IP INTERNATIONAL INC. (NPT Certificate Holder) Signed _____ (Authorized Representative)

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 ARKWRIGHT MUTUAL INS. CO. FACTORY MUTUAL SYSTEM of NORWOOD, MASS. have inspected these items described in this Data Report on MAY 2, 1990, 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 5/3/90 Signed _____ (Authorized Inspector) Commissions 1275 CA. (Nat'l Bd. (incl. endorsements) state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0609

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Control Rod Drive (CRD) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD-V-101	Dragon	DL10330	790	N/A	1977	Replacement	Yes, Code Class 2

7. Description of Work: Replaced stem/disc assembly. Removed stem/disc assembly from the valve and installed new replacement stem/disc assembly

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0609

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Ralph Gish — Signed by [signature] Plant Technical Manager

Date 6/25/90 — Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/30/90 to 6/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0610

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(1)-2B	WPPSS	RHR(1)-2B-P1	N/A	N/A	1984	Replacement	Yes, Code Class 2

7. Description of Work: Removed relief valve RHR-RV-1B and installed blind flange on the inlet piping in place

Note: This is considered as interim design configuration of the piping system while the relief valve was being bench tested

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0610

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 6/12/90 Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/1/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W
Inspector's Signature — National Board, State, and Endorsements

Date 6/12/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0611

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(1)-2B	WPPSS	RHR(1)-2B-P1	N/A	N/A	1984	Replacement	Yes, Code Class 2

7. Description of Work: Removed relief valve RHR-RV-25B and installed blind flange on the inlet piping in place

Note: This is considered as interim design configuration of the piping system while the relief valve was being bench tested

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0611

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulaski Singh — Signed by [signature] Plant Technical Manager

Date 6/12/90 — Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/1/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 6/12/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0612

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/12/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(3)-2B	WPPSS	RHR(3)-2B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Removed relief valve RHR-RV-88B and installed blind flange on the inlet piping in place

Note: This is considered as interim design configuration of the piping system while the relief valve was being bench tested

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0612

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]

Plant Technical Manager

Date 6/12/90 Date 6-12-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/1/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556W

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

Date 6/12/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0613

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Reactor Recirculation Cooling (RRC) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RRC(51)-4	WPPSS	RRC(51)-4-P1	N/A	N/A	1983	Repair	Yes, Code Class 1
RRC(51)-4	WPPSS	RRC(51)-4-P2	N/A	N/A	1983	Repair	Yes, Code Class 2

7. Description of Work: Removed and reinstalled RRC stem leak off and vent connection lines for valve RRC-V-60A. The work was performed as follows
   1) Ground (cut) existing socket welds
   2) Reinstalled material and made required socket welds
   3) Performed PT examination on the final socket welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0613

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]
Plant Technical Manager

Date 6/28/90 Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/2/90 to 6/25/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W
Inspector's Signature — National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0614

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/13/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Instrument (PI) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 and 1976 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S-X75D	JCI	PI(1)-4S-X75D	N/A	N/A	1983	Repair	Yes, Code Class 1
PI-EFC-X75D	Dragon	GW 1137	N/A	N/A	1978	Replacement	Yes, Code Class 1

7. Description of Work: Cut and rewelded valve PI-EFC-X75D to pipe weld and also replaced poppet assembly (disc) for the valve. The repair and replacement work was performed as follows
   1) Cut pipe to valve weld
   2) Prepped valve socket end for rewelding
   3) Performed PT examination on the prepped valve socket end. PT examination results acceptable
   4) Removed existing poppet assembly (disc) and installed new replacement poppet assembly (disc)
   5) Made valve to pipe socket weld
   6) Performed PT examination on the final socket weld. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0614

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dulip Gupta — Signed by [signature] Plant Technical Manager

Date 9/13/90 — Date 9-13-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6-4-90 to 9-13-90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 9/13/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0615

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Instrument (PI) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S-X38d	JCI	PI(1)-4S-X38d	N/A	N/A	1983	Replacement	Yes, Code Class 1

7. Description of Work: Replaced section of pipe (with unacceptable PT indication) in RCIC high steam flow instrument line PI(1)-4S-X38d. The replacement work was performed as follows
   1) Ground (cut) existing socket welds
   2) Removed pipe piece with unacceptable PT indication
   3) Installed new replacement pipe and made required socket welds
   4) Performed PT examination on the final socket welds. PT examination results acceptable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0615

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Singh — Signed by [signature] Plant Technical Manager

Date 6/25/90 — Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/8/90 to 6/25/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0622

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/6/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-TK-3U	Jet Air	N-125	N/A	N/A	1980	Replacement	Yes, Code Class 2

7. Description of Work: Installed new replacement pipe cap on test connection for MS-TK-3U

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0622

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulidip Gupta — Signed by [signature] Plant Technical Manager

Date 8/6/90 — Date 8-8-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 7/12/90 to 8/8/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8/8/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0624

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/10/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Containment Instrument Air (CIA) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced existing flexible metal hose assembly CIA-FLX-1C with new replacement flexible metal hose assembly. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0624

FORM NIS-2 (Back)

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

Test Pressure: 151 Psig — Test Temperature: 83 °F

Component Design Pressure: 200 Psig — Temperature: 340 °F

9. Remarks: See attached NPP-1 Code Data Report for the new replacement flexible metal hose assembly CIA-FLX-1C, Serial No 001

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dilip Gupta — Signed by [signature] Plant Technical Manager

Date 9/10/90 — Date 9-10-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 7/20/90 to 9/10/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 National Board, State, and Endorsements

Date 9/10/90

968-22684 (9/87)

PLAN NO 2-0624

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*

(As Required by the Provisions of the ASME Code Rules)

Lindip Singh 9/10/90.

1. Fabricated by Metal Bellows Div. of Parker Hannifin Corp. 200 Science Dr., Moorpark, Ca. 93021-8010 Order No. A12237

2. Fabricated for Washington Public Power Supply System Richland, WA (Name and Address) Order No. 205895

3. Owner Washington Public Power Supply System, Richland, WA 99352 4. Location of Plant WNP-2 North Power Plant Loop Richland, WA 99352

5. Piping System Identification Flexible Metal Hose Assembly (Brief description of intended use, main coolant etc.)

(a) Drawing No. 87357 Prepared by Metal Bellows Div. of Parker Hannifin Corp.

(b) National Board No. ---

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

Edition 1980, Addenda Date S'82, Case No. N-192-2

Remarks: Manufacturers' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report ---
(Name of Part — Item number, Manufacturer's name, and Identifying stamp)

7. Shop Hydrostatic Test 10 Min. @ 470 psi.

8. Description of piping inspected 87357: Bellows; SA249 Type 321 2.00" O.D. x .020" thick straight tube. Adaptors; SA479 Type 304 both ends. Stub Ends; SA182 Type 304 2" IPS Sch. 40, two. Flanges; SA182 Type 304 2" 300# LJ, two. Total length 45.00". Design pressure 300 PSIG @ 340° F. Design verification by analysis per NC3649.4(e)(1) and Code Case N-192-2. Installation to be by Customer/Owner per IM77598. Metal Bellows Part No. 87357 Rev. N/C - S/N 001
(include — mark no. — material spec. — nom. pipe size — schedule or thickness — length — fittings — flanges, etc.)

We certify that the statements made in this report are correct and that the fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.

Date 7-17-90 Signed Metal Bellows Div. (Fabricator) By [signature]

Certificate of Authorization Expires June 2, 1992 Certificate of Authorization No. N-2801

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 HSB I.C.T. of HARTFORD, CT have inspected the piping described in this Data Report on 7-17 1990, and state that to the best of my knowledge and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concerning the piping 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 17, 1990 [signature] (Inspector) Commissions CA-1526 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 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 7, "Remarks".

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0625

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/10/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Containment Supply Purge (CSP) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CSP-V-96	Target Rock	3	N/A	N/A	1983	Repair/ Replacement	Yes, Code Class 2

7. Description of Work: Performed work on valve CSP-V-96. The work was performed as follows
   1) Cut body to bonnet seal weld
   2) Removed valve internals for troubleshooting
   3) Reinstalled valve internals and installed new replacement disc
   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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0625

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 788

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Smith — Signed by [signature] Plant Technical Manager

Date 9/10/90 — Date 9-10-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 7/30/90 to 9/10/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date _____

968-22684 (9/87)

PLAN NO. 2-0625

Philip Smith 9/10/90.

FORM N-2 CERTIFICATE HOLDER'S DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

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

Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd, E. Farmingdale, NY 11735 (name and address of NPT Certificate Holder)

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

3. Location of installation Washington Nuclear Plant 2, Richland, WA (name and address)

4. Type 202337-1 Rev. E (drawing no.) SA-479 316 (mat'l. spec. no.) 75 KSI (tensile strength) N/A (Class) 1989 (year built)

5. ASME Code, Section III: 1974 (edition) W 75 (addenda date) 2 (class) N/A (Code Case no.)

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

7. Remarks: Spare Parts for a completed valve, Models 79TT-001, 83TT-001

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

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 779	N/A	(26)	
(2) 816	N/A	(27)	
(3) 788	N/A	(28)	
(4) 824	N/A	(29)	
(5) 782	N/A	(30)	
(6) 760	N/A	(31)	
(7) 762	N/A	(32)	
(8) N/A	N/A	(33)	
(9)		(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)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F Hydro. test pressure 165 (where applicable) at temp. °F AMB

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

S/N's 779, 816, 788, 824, 782, 760, 762

Rudolph Sims 4/4/90

See Front

CERTIFICATION OF DESIGN

Design specifications certified by _____ P.E. State _____ Reg. no. _____

Design report* certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. 1948 Expires 12-9-89

Date 4/4/89 Name Target Rock Corporation (NPT Certificate Holder) Signed E. Bajada

E. Bajada Q.A. Manager

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Commercial Union Insurance Company of Boston, Mass. have inspected these items described in this Data Report on 4/4/89, 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 4/4/89 Signed William A. Roland (Authorized Inspector) Commissions NEW YORK STATE COMMISSION NO. 2288 (Nat'l Bd. and endorsements, state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0626

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 8/20/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Reactor Water Clean Up (RWCU) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Summer 1976 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RWCU-V-229B	Xomox	89665D	N/A	N/A	1977	Replacement	Yes, Code Class 3

7. Description of Work: Replaced existing stem/plug assembly with new replacement stem/plug assembly for valve RWCU-V-229B

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0626

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dulip Gupta — Signed by [signature] Plant Technical Manager

Date 8/20/90 — Date 8-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 8/1/90 to 8/21/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8/21/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0627

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Reactor Water Clean Up (RWCU) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 8/23/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RWCU(1)-4	WPPSS	RWCU(1)-4-P2	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description of Work: Replaced existing relief valve RWCU-RV-2 and installed a blind flange (on the inlet piping) in place

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0627

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulaip Gupb — Signed by [signature] Plant Technical Manager

Date 8/23/90 — Date 8-23-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 8/6/90 to 8/23/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 8/23/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2789 and AS 2790

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply Yes, Code Class 1System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Residual Heat Removal (RHR) System, Reactor Recirculation (RRC) System and Main Steam(MS) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 10/19/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RRC(51)-4	WPPSS	RRC(51)-4-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
RRC(7)-4S	WPPSS	RRC(7)-4S-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS(1)-4B	WPPSS	MS(1)-4B -P3	N/A	N/A	1983	Replacement	Yes, Code Class 2
MS(1)-4A	WPPSS	MS(1)-4A -P4	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: 1) Replaced snubber on hanger RHR-SB-30 with new snubber
Replacement snubber information:
PSA-10, S/N 14555 snubber was removed from RFW-168 which was deleted as part of snubber optimization at R5.

2) Replaced snubber on hanger RHR-SB-34(T) with new snubber
Replacement snubber information:
PSA-10, S/N 9931 snubber was removed from RFW-153 which was deleted as part of snubber optimization at R5.

3) Replaced snubber on hanger MS-145 with new snubber
Replacement snubber information:
PSA-10, S/N 14556 snubber was removed from RFW-168 which was deleted as part of snubber optimization at R5.

4) Deleted snubber for hanger MS-256(T) per MWR AS-2790

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2789 and AS-2790

FORM NIS-2 (Back)

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

Test Pressure: Psig Test Temperature: °F

Component Design Pressure: Psig Temperature: °F

9. Remarks: Snubber operability test preformed on replacement snubbers.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]

Plant Technical Manager

Date 10/19/90 Date 10-19-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/16/90 to 8/7/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 (W)

Inspector's Signature National Board, State, and Endorsements

Date 10/19/90

968-22634 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2790

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Main Steam (MS) System And Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
B22-G001A	WPPSS	B22-G001A	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS(18)-2-4	WPPSS	MS(18)-2-4	N/A	N/A	1983	Replacement	Yes, Code Class 3
MS(18)-2-1	WPPSS	MS(18)-2-1.	N/A	N/A	1983	Replacement	Yes, Code Class 3
MS(18)-2-2	WPPSS	MS(18)-2-2	N/A	N/A	1983	Replacement	Yes, Code Class 3
MS(18)-2-3	WPPSS	MS(18)-2-3	N/A	N/A	1983	Replacement	Yes, Code Class 3
RHR(1)-4A	WPPSS	RHR(1)-4A	N/A	N/A	1983	Replacement	Yes, Code Class 1
RHR(1)-4B	WPPSS	RHR(1)-4B	N/A	N/A	1983	Replacement	Yes, Code Class 1
RHR(1)-4C	WPPSS	RHR(1)-4C	N/A	N/A	1983	Replacement	Yes, Code Class 1

7. Description of Work: Deleted snubbers for the following hangers-

B22-G001A	MS(18)-2-4	MS(18)-2-1	MS(18)-2-2	MS(18)-2-3	RHR(1)-4A	RHR(1)-4B
MS-SA-3	MSRV-4A-1	MSRV-1A-1	MSRV-2A-1	MSRV-3A-1	RHR-380	RHR-387
MS-SA-5	MSRV-4A-3	MSRV-1A-2	MSRV-2A-3	MSRV-3A-3		
MS-SA-6	MSRV-4A-4	MSRV-1A-5	MSRV-2A-4	MSRV-3A-5		
MS-SA-9	MSRV-4A-5	MSRV-1A-6	MSRV-2A-5			
MS-SA-10	MSRV-4A-7					
	MSRV-4A-8					

RHR(1)-4C
RHR-281

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2790

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Quality Supt's FOR TFH — Signed by [signature] Plant Technical Manager

Date 6/28/90. — Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/2/90 to 6/27/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 6/27/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2893

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drives (CRD's)
5. (a) Applicable Construction Code ASME Section III: (See Below) Edition with (See Below) Addenda, Code Case (See Below)
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 9/10/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD's	GE	See Below	N/A	N/A	See Below	Replacement	Yes, Class 1

7. Description of Work: Replaced thirty five (35) Control Rod Drives (CRD's). The replacement work was performed as follows: 1) Removed thirty five (35) existing CRD's, 2) Installed replacement CRD's, 3) Installed new replacement cap screws for all the CRD flange connections except for flange connection for core location 34-47, 4) Torqued the cap screws for the CRD flange connections to the required torque values, 5) Performed pressure test on CRD flange connections. Some leakage was observed during pressure test. The leakage was determined to be acceptable

Core Location	CRD Removed Serial Number	Code Year And Addenda	CRD Replaced Serial Number	Code Year And Addenda	Year Built	Code Case
02-19	6389	1971	6309	1971	1975	1361-1
02-39	7041	1971	A8738	74/W75	1988	1361-2
06-15	5409	1971	7326	1971	1975	1361-1
06-19	5106	1971	2989	1971	1975	1361-1
10-23	6431	1971	A8552	74/W75	1988	1361-2
10-27	5393	1971	7320	1971	1975	1361-1
10-47	7028	1971	A8562	74/W75	1988	1361-2
10-51	6625	1971	A8517	74/W75	1987	1361-2
14-11	6578	1971	5106	1971	1974	1361-1
14-23	6303	1971	6200	1971	1975	1361-1
14-27	6510	1971	A8503	74/W75	1987	1361-2
14-39	6534	1971	6709	1971	1975	1361-1
14-43	6346	1971	4608	1971	1975	1361-1
14-51	7151	1971	6717	1971	1975	1361-1
18-03	7000	1971	7041	1971	1975	1361-1
18-23	7338	1971	6410	1971	1974	1361-1
18-39	6227	1971	5393	1971	1974	1361-1
18-55	6725	1971	A8460	74/W75	1988	1361-2
22-35	6091	1971	A8461	74/W75	1988	1361-2
26-03	6190	1971	6534	1971	1974	1361-1
26-19	7143	1971	A8577	74/W75	1988	1361-2
26-35	7138	1971	A8748	74/W75	1988	1361-2
26-47	6399	1971	5409	1971	1974	1361-1
26-51	5374	1974	A8540	74/W75	1987	1361-2
34-03	7327	1971	6389	1971	1974	1361-1
34-11	7155	1971	A8655	74/W75	1988	1361-2
34-19	6723	1971	A8727	74/W75	1989	1361-2
34-23	7120	1971	7028	1971	1975	1361-1
34-47	6701	1971	6319	1971	1974	1361-1
34-55	6255	1971	A8750	74/W75	1988	1361-2
38-19	7272	1971	7151	1971	1975	1361-1
38-43	6671	1971	A8722	74/W75	1988	1361-2

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2893

FORM NIS-2 (Back)

Core Location	CRD Removed Serial Number	Code Year And Addenda	CRD Replaced Serial Number	Code Year And Addenda	Year Built	Code Case
38-59	A916	1971	A8740	74/W75	1988	1361-2
42-03	6282	1971	A8470	74/W75	1988	1361-2
42-27	7346	1971	6505	1971	1975	1361-1

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

Test Pressure: * Psig Test Temperature: * °F

Component Design Pressure: 1250 Psig Temperature: 575 °F

9. Remarks: N-2 Code Data Reports for the replacement CRD's are filed separately from this NIS-2 form

* Reactor Pressure Vessel (RPV) was pressurized to 1005 psig prior to visual examinations. The pressure was maintained above 750 psig during visual examinations. The test temperature corresponds to saturated steam temperature.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudip Singh Signed [signature] Plant Technical Manager

Date 9/10/90 Date 9-10-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/20/90 to 9/10/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature Commissions 9556 National Board, State, and Endorsements

Date 9/10/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2905

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6625	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8461	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 6625, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8461, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2905

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8461

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Swoz — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/4/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

MWR AS 2905
Buildup Supply
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8461 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description or service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 12/31, 19 88 Signed GE-NEBG-NF&CM-QA By [signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 12 - 31 19 88, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

12 - 31, 19 88	[signature]	NB 779, PA, WC2L60, OHIO
DATE	Inspector's Signature	National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" X 11", (2) information in 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"

(10/77)

VERIFIED & ACCEPTED [signature] 1-15-89
R.I. Inspector Date

MWR AS2905 S/N A8461
Ralph Sims
1/19/89.

FORM X-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jackets 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)_____								
(b)_____								

If removable, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure [2] 1250 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 Mat'l._____ Dia._____ Thickness__in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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 (a)Top, Bottom, End	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(b)Channel								

If removable, bolts used (a)_____ (b)_____ (c)_____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2907

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System — Date: 5/19/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3. (a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6303	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	GE	A8655	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 6303, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8655, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2907

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8655

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Gupta — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/6/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

MWR AS 2907
Kuldip Singh 5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352.
(Name and Address of N Certificate Holder for completed nuclear component)

Identification-Certificate Holders's S/N of Part: A8655 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

Sheet 1 of 2

I certify that the statements in this report are correct and this vessel part or appurtenance defined in the code conforms to the rules of construction of the ASME Code Section III. The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 5/27, 19 88 Signed GE-NEBG-NF&CM-QA (NPT Certificate Holder) By [signature]

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCES

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 5/27 19 88, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

DATE 5/27, 19 88 [signature] Inspector's Signature — N.C. 723, PA.WC1766, OHIO National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8½ x 11", (2) information in 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. "REMARKSs"

(77)

MWR A3 2907 S/N A8655

Kuldip Gupta 11/21/88

FORM U-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jackets 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)_____	_____	_____	_____	_____	_____	_____	_____	_____
(b)_____	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure [2] 1250 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 Mat'l._____ Dia._____ Thickness___in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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 (a)Top, Bottom, End	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(b)Channel	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used (a)_____ (b)_____ (c)_____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs:_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2908

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6510	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	GE	A8722	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 6510, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8722, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2908

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8722

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Guys — Signed [signature] Plant Technical Manager

Date 5/19/90. — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/4/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

NWR AS 2908

Dulip Gupta 5/29/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8722 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 12/31, 19 88 Signed GE-NEBG-NF&CM-QA By [signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 12-31 1988, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

12-31, 1988 [signature] NB 779, PA WC2160, OHIO
DATE Inspector's Signature National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8 1/2" X 11", (2) information in 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"

(10/77)

VERIFIED & ACCEPTED [signature] 1-18-89
R.I. Inspector Date

MW2 AS 2908 S/N A8722
Buddy Cups
1/19/89.

FORM X-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jackets 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)_____	_____	_____	_____	_____	_____	_____	_____	_____
(b)_____	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness___in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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 (a)Top, Bottom, End	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
	_____	_____	_____	_____	_____	_____	_____	_____
(b)Channel	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used (a)_____ (b)_____ (c)_____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coincident temperature when applicable.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2910

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6346	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	GE	A8460	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 6346, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8460, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2910

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8460

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Smith — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/4/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

MWR A-S 2910
Kuldip Gupta 5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8460 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 12/31, 19 88 Signed GE-NEBG-NF&CM-QA By [signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA

DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570

DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 12-31 1988, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

12-31, 1988 [signature] NB 779, PA.WC2L60, Ohio
Date Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" X 11", (2) information in 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"

3/77

VERIFIED & ACCEPTED [signature] 1-18-89
R.I. Inspector Date

MWR AS 2910

S/N A8460
Calif Sup's
1/19/89.

FORM X-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jackets 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)_____	_____	_____	_____	_____	_____	_____	_____	_____
(b)_____	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness___in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(a)Top, Bottom, End	_____	_____	_____	_____	_____	_____	_____	_____
(b)Channel	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used (a)_____ (b)_____ (c)_____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coincident temperature when applicable.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2913

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System — Date: 5/19/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE,	7338	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8727	N/A	N/A	1989	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 7338, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8727, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2913

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8727

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Dulip Gupta — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/6/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 5/22/90

968-22584 (9/87)

MWR AS2913

Kuldip Gupta 5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8727 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 2/1, 19 89 Signed GE-NEBG-NF&CM-QA By [signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 2/2 1989, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

2/2, 19 89 [signature] NB 779, PA, WC2160, OHIO
Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8½" X 11", (2) information in 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. "REMARKSs"

7)

VERIFIED & ACCEPTED [signature] 2-16-89
R.I. Inspector Date

MWR AS 2913 - S/N A 8727

Philip Sims 6/13/89.

FORM M-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jacketa 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)_____	_____	_____	_____	_____	_____	_____	_____	_____
(b)_____	_____	_____	_____	_____	_____	_____	_____	_____

If removals, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness___in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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 (a)Top, Bottom, End	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
	_____	_____	_____	_____	_____	_____	_____	_____
(b)Channel	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used (a)_____ (b)_____ (c)_____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

1. If Postweld Heat-Treated.

2. List other internal or external pressure with coincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2914

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 5/18/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6227	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8470	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 6227, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8470, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2914

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8470

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Gupb — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/4/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 IN National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

MWR AS2914
Rulaip Sings 5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Bayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8470 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 12/31, 19 88 Signed GE-NEBG-NF&CM-QA By [signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 12-31 1988, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

12-31, 1988 [signature] NB 179, PA, WC2L60, OHIO
DATE Inspector's Signature National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" X 11", (2) information in 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"

(10/77)

VERIFIED & ACCEPTED [signature] 1-15-89
R.I. Inspector Date

MWR AS 2914 S/N A8470 Eurcip Supts 1/19/89.

FORM X-2 (back)

Items 4-8 incl. to be completed for single wall vessels, 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)_____								
(b)_____								

If removable, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness___ in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(a)Top, Bottom, End								
(b)Channel								

If removable, bolts used (a)____ (b)____ (c)____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coincident temperature when applicable.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2917

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System — Date: 5/19/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6190	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8466	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 6190, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8466, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2917

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8466

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed [signature]
Plant Technical Manager

Date 5/19/90 Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/8/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556W
Inspector's Signature — National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

MWR AS 2917
Buldip Singh 5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8466 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 . Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 5/27, 19 88 Signed GE-NEBG-NF&CM-QA By [signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA

DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 5/27 19 88, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

5/27, 19 88 [signature] N.C. 723, PA.WC1766, OHIO
DATE Inspector's Signature National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8½" X 11", (2) information in 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"

10/77)

MWR AS 2917 S/N A 8466

Kuldip Gupta 11/21/88.

FORM N-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)								
(b)								

If removable, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness__ in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(a)Top, Bottom, End								
(b)Channel								

If removable, bolts used (a)____ (b)____ (c)____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coninciceut temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2919

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	7138	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8486	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 7138, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8486, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2919

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8486

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed [signature]

Plant Technical Manager

Date 5/19/90. Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/6/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556W

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

Date 5/22/90

968-22684 (9/87)

MWK AS 2919
Buldip Singh 5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

Identification-Certificate Holders's S/N of Part: A8486 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

Sheet 1 of 2

e certify that the statements in this report are correct and this vessel part or appurtenance s defined in the code conforms to the rules of construction of the ASME Code Section III. The applicable Designed Specification and Stress Report are not the responsibility of the NPT ertificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not ncluded in the component Design Specification and Stress Report).

DATE: 5/27, 19 88 Signed GE-NEBG-NF&CM-QA By [signature]
(NPT Certificate Holder)

ate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCES

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA

DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 5/27 19 88, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

5/27, 19 88 [signature] N.C. 723, PA.WC1766, OHIO
DATE Inspector's Signature National Board, State, Province and No.

plemental sheets in form of lists, sketches or drawing may be used provided (1) size is X 11", (2) information in 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. "REMARKSs"

10/77)

MWR AS 2919 S/N A 8486

Rudolph Engs 11/21/88

FORM N-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jackets 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.ofRange 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	Concial 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 ogee and weld,bar,etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure[2] 1250 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 Mat'l.____ Dia.____ Thickness__ in. Attachment____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(a)Top, Bottom, End								
(b)Channel								

If removable, bolts used (a)____ (b)____ (c)____ Other Fastening____ (Describe or attach sketch

14. Design pressure[2]____ 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	Attached

17. Inspection Openings: Manholes, No.____ Size____ Location____
Handles, No.____ Size____ Location____
Threaded, No.____ Size____ Location____

18. Supports: Shirt____ (Yes or No) Lugs____ (Number) Legs____ (Number) Other____ (Describe) Attached____ (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coincident temperature when applicable.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2920

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System — Date: 5/19/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3. (a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6399	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8518	N/A	N/A	1987	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 6399, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8518, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2920

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8518

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Seiffert — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/8/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/22/90

68-22684 (9/87)

... the provision of the ASME Code Rules, Section III, Div. 1

Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2
(Name and Address of N Certificate Holder for completed nuclear component)

Identification-Certificate Holders's S/N of Part: A8518 Nat'l Bd. No. N/A

Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE MWR AS 2920

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75, Case No. 1361-2 Class 1 Buildup Supts 5/19/90

REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

Sheet 1 of 2

I certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 11/10, 19 87 Signed GE-NEBG-NF&CH-QA By J. Eltrudenmer
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
[illegible] Rev. 0
Design Specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
2A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I the undersigned, holding a valid commission by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this Partial Data Report on 11-10 1987, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

11-18, 1987 J.F. Brandtke NC-779-PA WC2L60 OHIO
Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8½ X 11", (2) information in 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. "REMARKSs"

VERIFIED & ACCEPTED [illegible] 1-5-88
G.E. Inspector Date

Items 4-8 incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchanger

4. Shell: Material_____ T.S._____ Nominal Thickness___in. Corrosion Allowance___in Dia.___ft.___in. Length___ft.___
(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_____

MWK AS 2920 S/N A 8518

6. Heads: (a) Material_____ T.S._____ (b) Material_____ T.S._____

Fuelwd 1/15/88

Location (Top Bottom, Ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv. or conc.)
(a)								
(b)								

If removable, bolts used_____ Other fastening_____
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch).

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

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness___in. Attachment_____
(Kind of Spec. No.) (Subj. to Press.) (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	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv. or Conc.)
(a) Top, Bottom, End								
(b) Channel								

If removable, bolts used (a)_____ (b)_____ (c)_____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ (Yes or No) Lugs_____ (Number) Legs_____ (Number) Other_____ (Describe) Attached_____ (Where & How)

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2924

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System — Date: 5/19/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6723	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8609	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 6723, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8609, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2924

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8609

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Gupta — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/7/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556W National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

MWR. AS 2924
Buddy Bunch 5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8609 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 5/27, 19 88 Signed GE-NEBG-NF&CM-QA By [signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA

DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570

DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 5/27 19 88, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

5/27, 19 88 [signature] N.C. 723, PA.WC1766, OHIO
DATE Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8½" X 11", (2) information in 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. "REMARKSs"

(10/77)

MWR AS 2924 S/N A 8609

Eulalio Smith 11/21/88

FORM M-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)								
(b)								

If removable, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure [2] 1250 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 Mat'l._____ Dia._____ Thickness___ in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(a)Top, Bottom, End								
(b)Channel								

If removable, bolts used (a)____ (b)____ (c)____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coincident temperature when applicable.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2925

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System — Date: 5/19/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	7120	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	GE	A8508	N/A	N/A	1987	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 7120, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8508, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2925

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8508

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Philip Smith — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/7/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

... FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8508 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75, Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2 LIWR AS 2925
Buldip Singh

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 11/10, 19 87 Signed GE-NEBG-NF&CM-QA By J. Ettrudenmie
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this Partial Data Report on 11-10 1987, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.

11-10, 1987 [signature] NCTTP. PA. WC2L60 OHIO
DATE Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" X 11", (2) information in 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. "REMARKSs"

VERIFIED & ACCEPTED [signature] 1-5-88
R.I. Inspector Date

Items 4-8 incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchanger

4. Shell: Material_____ T.S._____ Nominal Thickness___in. Corrosion Allowance____in. Dia.___ft.___in. Length___ft.___in.
(Kind & Spec.No) (Min.ofRange Specified)

5. Seams: Long_____ H.T.[1]_____ R.T._____ Efficiency_____%

Girth_____ H.T.[1] MWR AS 2812S _____ No. of Courses S/N A8508

6. Heads: (a) Material_____ T.S._____ (b)Material_____ T.S._____

Location (Top Bottom, Ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)								
(b)								

If removable, bolts used_____ Other fastening_____
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness___in. Attachment_____
(Kind of Spec. No.) (Suj.to Press.) (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.ofRange 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	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(a)Top, Bottom, End								
(b)Channel								

If removable, bolts used (a)_____ (b)_____ (c)_____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2926

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6701	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8577	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 6701, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8577, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2926

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8577

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolph Lewis — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/7/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

MWR AS 2926
Building Supply
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Bayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8577 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 12/31, 19 88 Signed GE-NEBG-NP&CM-QA By [signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA

DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570

DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 12-31 1988, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

12-31, 1988 [signature] NB 779, PA WC2160, OHIO
DATE Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" X 11", (2) information in 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"

(10/77)

VERIFIED & ACCEPTED [signature] 1-17-89
R.I. Inspector Date

MWR AS2926 S/N A8577 Eulalio Lopez 1/19/89.

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)								
(b)								

If removable, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

7. Jacket Closure:_____
(Describe as edge and weld,bar,etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness___ in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (Welded, Bolted)
Floating. Material_____ Dia._____ Thickness___ in. Attachment_____
inches

10. Tubes: Material_____ O.D.___ in. Thickness___ 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,ofRange 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	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(a)Top, Bottom, End								
(b)Channel								

If removable, bolts used (a)____ (b)____ (c)____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coincident temperature when applicable.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2930

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System — Date: 5/19/90
   Address: 3000 George Washington Way, Richland, WA — Sheet: 1 of 1
2. Plant: WPPSS Nuclear Power Plant (WNP) — Unit: WNP-2
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	A916	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8530	N/A	N/A	1987	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number A916, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8530, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 2930

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8530

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Pulldip Gupta — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/7/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/22/90

968-22684 (9/87)

... PART AND APPURTENANCES*

... by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8530 Nat'l Bd. No. N/A

(a) Constructed According to Drawing-No: 9190258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75, Case No. 1361-2 Class 1

REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

Sheet 1 of 2 NWR AS 2930.

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

DATE: 11/10, 19 87 Signed GE-NEBG-NF&CM-QA By J. E. Hardemmie
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this Partial Data Report on _____ 19___, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

11-10, 1987 [signature] NC.779. PA.WC2460 OH10
Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8½" X 11", (2) information in 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. "REMARKSs"

VERIFIED & ACCEPTED [signature] 1-5-88
R.I. Inspector Date

Items 4-13 incl. to be completed for single wall vessels, jacketed vessels, or shells of heat exchanger

4. Shell: Material_____ T.S._____ Nominal Thickness___ in. Corrosion Allowance____ in Dia.____ ft.___ in. Length___ ft.____
(Kind & Spec.No) (Min.of Range Specified)

5. Seams: Long_____ H.T.[1]_____ R.T._____ Efficiency_____ %
Girth_____ H.T.[1] MWR AS 2930 R.T._____ No. of Courses S/N A8530

6. Heads: (a) Material_____ T.S._____ (b) Material_____ T.S._____

Location (Top Bottom, Ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv. or conc.)
(a)								
(b)								

If removable, bolts used_____ Other fastening_____
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness___ in. Attachment_____
(Kind of Spec. No.) (Subj. to Press.) (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	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv. or Conc.)
(a) Top, Bottom, End								
(b) Channel								

If removable, bolts used (a)____ (b)____ (c)____ Other Fastening_____
(Describe or attach sketch
Drop Weight_____
Charpy Impact_____ ft-lb
14. Design pressure[2]_____ psi at_____ °F 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	Attached

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 4972

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 6/25/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Reactor Feed Water (RFW) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RFW(1)-4A	WPPSS	RFW(1)-4A	N/A	N/A	1983	Replacement	Yes, Code Class 1
RFW(1)-4B	WPPSS	RFW(1)-4B	N/A	N/A	1983	Replacement	Yes, Code Class 1

7. Description of Work: Deleted snubbers for the following hangers-

RFW(1)-4A	RFW(1)-4B
RFW-147	RFW-163
RFW-150	RFW-166
RFW-153	RFW-167
RFW-154	RFW-168
RFW-155	RFW-170
RFW-160	RFW-172

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 4972

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Eugh FOR TFH Signed by [signature]

Plant Technical Manager

Date 6/25/90 Date 6-27-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/2/90 to 6/27/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

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

Date 6/27/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 5339

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

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

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
(b) Repair Organization P.O. No., Job No., etc.:WPPSS
4. Identification of System: Control Rod Drive (CRD)
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	7185	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8562	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:
   > Existing Control Rod Drive (CRD) Serial Number 7185, ASME Section III, Code Class 1, 1971 Edition with no Addenda
   > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8562, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
   > Disassembled CRD for overhaul. CT&F was rejected because collet housing was out of round and would not pass the leak test. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.

   > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

MWR No AS 5339

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8562

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by Rudolf Santos — Signed [signature] Plant Technical Manager

Date 5/19/90 — Date 5-21-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/3/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature — Commissions 9556 W National Board, State, and Endorsements

Date 5/22/90

MWR AS 5339
Rudolf Swets
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PARTS AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8562 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1

3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

Date: 12/31, 19 88 Signed GE-NEBG-NF&CM-QA By [signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
DC22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on 12-31 1988, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

12-31, 1988 [signature] NB 779, FALWC2L60, OHIO
DATE Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" X 11", (2) information in 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"

(10/77)

VERIFIED & ACCEPTED [signature] 1-18-89
R.I. Inspector Date

MWR AS 5339 S/N A 8562 Richard Gupta 1/19/89

FORM N-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, 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.ofRange 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv.or conc.)
(a)_____								
(b)_____								

If removable, bolts used_____ Other fastening_____
(Material,Spec.No., T.S. Size Number) (Describe or attach sketch)

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

8. Design Pressure[2] 1250 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 Mat'l._____ Dia._____ Thickness___in. Attachment_____
(Kind of Spec. No.) (Subj.to Press.) (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.ofRange 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	Tickness	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(a)Top, Bottom, End								
(b)Channel								

If removable, bolts used (a)_____ (b)_____ (c)_____ Other Fastening_____
(Describe or attach sketch

14. Design pressure[2]_____ 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	Attached

17. Inspection Openings: Manholes, No._____ Size_____ Location_____
Handles, No._____ Size_____ Location_____
Threaded, No._____ Size_____ Location_____

18. Supports: Shirt_____ Lugs_____ Legs_____ Other_____ Attached_____
(Yes or No) (Number) (Number) (Describe) (Where & How)

[1] If Postweld Heat-Treated.

[2] List other internal or external pressure with coincident temperature when applicable.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8898

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner (Name) Washington Public Power Supply System — Date 1/2/90
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) — Unit WNP-2
   Plant (Address) Hanford, Benton County, WA — N/A Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 George Washington Way, Richland, WA
4. Identification of System Service Water
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W76 Addenda, None Code Case
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, W80 Addenda, N308 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
18SW(21)-2	BF Shaw	N/A	N/A	N/A	1979	Modification	Yes, Class 3
18SW(22)-2	BF Shaw	N/A	N/A	N/A	1979	Modification	Yes, Class 3

7. Description of Work:

Deleted snubbers for hangers SW-934N and SW-937N.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8898

FORM NIS-2 (Back)

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

9. Remarks:

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this modification (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed Les Mauws (Owner or Owner's Designee,) Title Plant Technical Manager

RKaw

Date 1/16 19 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 1-17-90 to 1-18-90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[illegible] (Inspector's Signature) Commissions 9556 (National Board, State, and Endorsements)

Date 1-18 19 90

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. BDC-55-1042-0A

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/13/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Service Water (SW) System
5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SW(1)-2	WPPSS	SW(1)-2-P1	N/A	N/A	1983	Replacement*	Yes, Code Class 3
SW(2)-2	WPPSS	SW(2)-2-P1	N/A	N/A	1983	Replacement*	Yes, Code Class 3
SW(21)-2	WPPSS	SW(21)-2-P1	N/A	N/A	1983	Replacement*	Yes, Code Class 3
SW(22)-2	WPPSS	SW(22)-2-P1	N/A	N/A	1983	Replacement*	Yes, Code Class 3

7. Description of Work: Reference BDC-55-1042-0A
   Revised drawings to change the Equipment Piece Numbers (EPN's) for the following valves

EPN Changed From	EPN Changed To	Code System (N-5)	Valve S/N
SW-V-733A	SW-V-733B	SW(2)-2-P1	13728
SW-V-734A	SW-V-734B	SW(22)-2-P1	13450
SW-V-735A	SW-V-735B	SW(22)-2-P1	12697
SW-V-733B	SW-V-733A	SW(1)-2-P1	22689
SW-V-734B	SW-V-734A	SW(21)-2-P1	22470
SW-V-735B	SW-V-735A	SW(21)-2-P1	22578

The purpose of this NIS-2 form is to supplement the above listed N-5 Code Data Reports reflecting changed Equipment Piece Numbers (EPN's)

* Drawing Change Only

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. BDC-SS-1042-0A

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]

Plant Technical Manager

Date 9/13/90 Date 9-13-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/2/90 to 9/13/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

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

Date 9/13/90

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. BDC-88-0254-1B

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

Date: 9/13/90
Sheet: 1 of 1
Unit: WNP-2

1. Owner: Washington Public Power Supply System (WPPSS)
   Address: 3000 George Washington Way, Richland, WA
2. Plant: WPPSS Nuclear Power Plant (WNP)
   Address: Hanford, Benton County, WA
3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
   (b) Repair Organization P.O. No., Job No., etc.: WPPSS
4. Identification of System: Process Instrument (PI) System
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
D-220-9.0-H22-P021	JCI	D-220-9.0-H22-P021	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Referance BDC-88-0254-1B
   Deleted hanger 220-6-020. This hanger supports bulk heads PI(1)-ST-(H22-P021)-A9 and PI(1)-ST-(H22-P021)-A10

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. BDC-88-0254-1B

FORM NIS-2 (Back)

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

Test Pressure: Psig — Test Temperature: °F

Component Design Pressure: Psig — Temperature: °F

9. Remarks: None

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Not applicable

Certificate Authorization No.: Not applicable

Expiration Date: Not Applicable

Prepared by [signature] Signed by [signature]

Plant Technical Manager

Date 9/13/90 Date 9-13-90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/25/90 to 9/13/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 9556 W

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

Date 9/13/90

968-22684 (9/87)