NUCLEAR PLANT 2

INSERVICE INSPECTION SUMMARY REPORT FOR REFUELING OUTAGE RF89A

Spring, 1989

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

INSERVICE INSPECTION SUMMARY REPORT
FOR
REFUELING OUTAGE RF89A
JUNE 27, 1988 TO JUNE 26, 1989

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:	D Ramsey ISI Engineer	9/5/89 Date
Reviewed by:	T F Hoyle Supervisor, Code Programs	9/5/89 Date
	R J Moen Manager, Material and Inspection	9-6-89 Date
	C P Lovell Manager, Engineering Systems Support	9/6/89 Date
RW 9/7/89 K Swan 9/7/89	L T Harrold Manager, Generation Engineering	9/8/89 Date
CDS 9/13/89 RRaw	R L Koenigs Manager, Plant Technical	9/14/89 Date
	J R Kolano Manager, Plant Quality Assurance	9/19/89 Date
Approved by:	C M Powers Plant Manager	9/20/89 Date
Concurrence:	[illegible] 9556 W Authorized Nuclear Inspector-Inservice	9/21/89 Date

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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, 1988 and June 26, 1989. During this period, WNP-2 experienced one major scheduled outage, RF89A, for refueling (Spring 1989).

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 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 located in the ISI Program Plan previously submitted to the NRC.

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

COMPONENTS EXAMINED

The following components were examined

Component	Manufacturer	Serial Number	National Board No.
Reactor Pressure Vessel	CBIN Nuclear 2700 Channel Ave. Memphis, TN	T-45	8
RHR-V-53A	Anchor/Darling Valve Co. 701 First Street Williamsport, PA	E6330-2-2	NA
MS-V-28A	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JU-53	78
MS-V-28D	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JT-78	71
MS-V-22A	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JV-2	81
MS-V-22D	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JT-41	68
RCIC-V-66	Anchor/Darling Valve Co. 701 First Street Williamsport, PA	1N321	NA
RCIC-V-65	Velan Engineering Co. 2125 Ward Montreal QUE	0334	NA
RCIC-V-8	Velan Engineering Co. 2125 Ward Montreal QUE	77	NA
RHR-V-23	Anchor/Darling Valve Co. 701 First Street Williamsport, PA	1N-104	NA
RHR-V-41A	Velan Engineering Co. 2125 Ward Montreal QUE	0064	NA

COMPONENTS EXAMINED (cont.)

Component	Manufacturer	Serial Number	National Board No.
RHR-HX-1A	Delta Southern Co P.O.Box 3034 Baton Rouge, LA 71821	35009-74-1	3489

The following number of components were examined during RF89A

	TYPE OF EXAMINATION PERFORMED			
	UT	PT/MT	VT	TESTING
CODE CLASS 1				
Piping Welds[1]	77	79		
Welded Attachments		8		
RPV Nozzle Inner Radius	1			
RPV Welds	2			
Bolting	11	11	27	
Valves[1]			10	
Component Supports[1]			54	
CODE CLASS 2				
Piping Welds[1]	16	15		
Welded Attachments		25		
Vessel Welds	2	1		
Component Supports[1]			85	
CODE CLASS 3				
Welded Attachments			95	
Component Supports[1]			130	
TESTING				
Safety-related Snubbers				55

NOTES
1. Includes Preservice examinations of replacements

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

Two nozzle to top head welds were ultrasonically examined. The examinations were performed by General Electric (GE) and Supply System personnel. No unacceptable indications were found.

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 was obtained.

Section XI visual (VT-3) examination of the RPV interior was performed during this outage. The bottom part of one of the three surveillance specimen holders was missing. The missing piece was located and removed from the vessel. The remaining part of the assembly was also removed. The failed holder was the spare holder and was not replaced at this refueling outage. No other unacceptable indications were found.

SIGNIFICANT INDICATIONS

Significant indications found during ISI examinations are summarized in Table I. All significant indications were evaluated. Rejectable indications/items were either repaired or replaced. Evaluations and/or re-examination data reports are attached to the original data reports.

LIMITED EXAMINATIONS

Full coverage of the examination volume or surface per ASME Section XI could not be accomplished on 4 welds. The following is a summary of the coverage obtained. The remaining volume or surface will be examined at a future outage or if necessary relief will be requested.

Report No.	Identification No.	Description	Remarks
1FWU-075	24RFW(1)B-8	Pipe to valve	UT Exam limited due to test line
1LPU-011	4LPCS(1)-2	Pipe to WOL	UT Exam limited by Code name plate
1RHU-073	14LPCI(1)B-18	El to pipe	UT Exam limited by pipe whip restraint and localized grindouts
1RRP-070	24RRC(1)A-13/8CAP	Pipe to SWL	PT Exam limited by hanger RRC-SA-66
1RRU-134	24RRC(1)A-13/8CAP	Pipe to SWL	UT Exam limited by hanger RRC-SA-66

AUGMENTED EXAMINATIONS

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

- High Energy Lines Penetrating Containment

  A dye penetrant or ultrasonic examination was performed on 11 of 65 welds in high energy pipe break exclusion areas not within ASME Section XI examination boundary. No unacceptable results were found. This brings the total welds examined in the high energy lines to 33.

- RPV Feedwater Nozzle

  The nozzle inner radii, bore and safe end regions were examined on one RPV feedwater nozzle per the requirements of the ISI Program Plan Section 5.3.2, "Reactor Feedwater Nozzle". No unacceptable indications were found. The Supply System has examined 4 of the 6 feedwater nozzles.

- IGSCC (Generic Letter 88-01 compliance)

  Approximately 10% of the 148 Generic Letter 88-01 category B welds were examined at this outage. No category A welds were scheduled for this outage. The examinations were performed by EPRI qualified examiners.

- 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 relevant indications were observed in the areas examined.

  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's QA program.

SNUBBER TESTING

An initial sample of 37 snubbers was selected from the WNP-2 general population of 749 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. Snubber RRC-1C-900N (S/N 617) was included in the initial sample as committed during the 1988 outage (see "Inservice Inspection Summary Report for Refueling Outage RF88A"). This snubber could not be tested during the 1988 outage due to it being in the vicinity of the RPV drain line "hot spot".

Testing of snubbers was performed using portable testing devices (Validators) supplied by the snubber manufacturer.

Snubber RHR-304 top (S/N 15459) in the initial sample failed the functional test. The failure was attributed to snubber overload, but the cause was indeterminate. Field inspections revealed no inappropriate design or construction deficiency associated with the pipe support installation, nor is any evidence of a transient movement of the piping system apparent from the inspection effort. Snubber RHR-304 bottom and other snubbers in the vicinity were stroked satisfactory. One additional sample of 18 snubbers was randomly selected from the remaining snubber population as required by the Technical Specification. No more snubber failures were found and the testing was considered complete in accordance with the requirements of Figure 4.7.1 (Technical Specification 4.7.4).

Snubber RCIC-100 East (S/N 4032) showed the same sluggish indication during the drag test as was evident during the 1986 outage. The snubber met the acceptance criteria, however, it was decided to replace the snubber with another tested one.

The next testing is required within 18 months. No additional testing due to the failure of RHR-304 is required as snubbers at RHR-304 have been replaced with rigid struts.

REPAIRS/REPLACEMENTS

During the RF89A refueling outage, four significant repair/replacement activities were performed: 1) Replacement of Residual Heat Removal (RHR) valve RHR-V-53A, 2) Removal of high radiation crud trap in the RPV drain line, 3) Replacement of safety-related snubbers with struts and deletion of other snubbers, and 4) Replacement of internals of four main steam isolation valves. A listing and summary of these and all other repairs/replacements accomplished between June 27, 1988 and June 26, 1989 are included in Appendix C.

Residual Heat Removal (RHR) Valve

Valve RHR-V-53A, a containment/pressure isolation globe valve was replaced with a gate valve to eliminate an erosion problem and change the function of the valve. The replacement valve will now perform only containment/pressure isolation. The throttling function once performed by this valve will be performed by RHR-V-3A and RHR-V-48A at the completion of the design change currently scheduled for 1990. In addition a new flow restricting orifice, RHR-RO-10A, was installed upstream of RHR-V-53A. This will allow the RHR system to operate satisfactorily throughout its various modes. The new valve and butt welds received required Section XI PSI examinations (VT-1, VT-3, PT and UT) and hydrostatic test as well as required Section III examinations (PT and RT).

RPV Drain Line Replacement due to High Radiation Field

A portion of the 2" RPV drain line was removed to eliminate a "crud trap" that was the source of a high radiation field. The new butt welds received required Section XI PSI examinations (PT and UT) and hydrostatic test as well as required Section III examinations (PT and RT).

Snubber Optimization Program

As part of the Supply System's effort to reduce the number of safety-related snubbers at WNP-2, 32 snubbers were replaced with rigid struts and 36 safety-related snubbers were deleted. The new replacement struts received PSI examination after installation.

MS ISOLATION VALVE INTERNALS REPLACEMENT

Internals of four MS isolation valves (MS-V-22A, MS-V-22D, MS-V-28A and MS-V-28D) were replaced. The replacement included the main disc and the stem disc. The bore ID was machined to accomodate the new parts. The machined areas received magnetic particle and visual PSI (VT-3) examinations.

TABLE I

SIGNIFICANT INDICATIONS

Report No.	Identification No.	Description	Remarks
1RIU-026	10RCIC(12)-6	Pipe to elbow	200% DAC due to ID geometry
1LPU-014	12LPCS(1)-13	Pipe to elbow	112% DAC due to ID geometry
1LPU-014	12LPCS(1)-14	Elbow to pipe	125% DAC due to ID geometry
1RPV-047	CRD HOUSING BLT	CRD flange bolting	27 CRD cap screws rejected due to pitting corrosion. Evaluation found acceptable for continued use,but will not be reused.
1RPV-048	CRD HOUSING BLT	CRD flange bolting	8 CRD cap screws rejected due to mechanical damage from removal
1RPV-081	RPV INTERIOR	RPV Interior	Surveillance specimen holder at 120 degree was missing from lower part of assembly. This was spare assembly and not required for operation.
1RPV-082	CRD HOUSING BLT	CRD flange bolting	62 CRD cap screws rejected due to pitting corrosion. Evaluation found acceptable for continued use,but will not be reused.
1VT2-89	CRD	CRD flanges	2 flange joints leaked. Approximatly 10 drops per minute. Evaluated as acceptable.

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
AUGMT	4RCIC(13)-20	VLV TO PIPE	RCIC-201	VOL	19890525
	4RCIC(13)-21	PIPE TO EL	RCIC-201	VOL	19890525
	4RCIC(13)-22	EL TO PIPE	RCIC-201	VOL	19890525
	2MS(20)B-3	EL TO PIPE	MS-202	SUR	19890515
	2MS(20)B-4	PIPE TO TEE	MS-202	SUR	19890511
	2MS(20)B-5	TEE TO RED	MS-202	SUR	19890511
	2MS(20)C-4	PIPE TO EL	MS-203	SUR	19890511
	2MS(20)C-5	EL TO PIPE	MS-203	SUR	19890511
	2MS(20)C-6	PIPE TO TEE	MS-203	SUR	19890511
	6RWCU(3)-32	ELL TO PIPE	RWCU-301	VOL	19890526
	6RWCU(3)-36	PIPE TO REDUCER	RWCU-301	VOL	19890526
	COUNT =	11			
B-D	N4-210-IR	FW NZ-IR @ 210	RPV-101	VOL	19890530
	N4-210-NB	FW NZ BORE @210	RPV-101	VOL	19890530
	N8	HD VN NZ-HD TOP	RPV-102	VOL	19890517
	N8-IR	HD VN NZ-HD IR	RPV-102	VOL	19890518
	N18	SPARE NZ-TOP HD	RPV-102	VOL	19890517
	N18-IR	SPARE NZ-TOP IR	RPV-102	VOL	19890518
	COUNT =	6			
B-F	12RFW(1)BD-9	SE EXT-SE STUB	RFW-102	VOL	19890527
	12RFW(1)BD-9	SE EXT-SE STUB	RFW-102	SUR	19890527
	12RFW(1)BD-10	SE STUB TO SE	RFW-102	VOL	19890527
	12RFW(1)BD-10	SE STUB TO SE	RFW-102	SUR	19890527
	12RFW(1)BD-11	SE TO N4	RFW-102	VOL	19890527
	12RFW(1)BD-11	SE TO N4	RFW-102	SUR	19890527
	COUNT =	6			
B-G-1	RPV STUD 35-1-3A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-3A	RPV STUD	RPV-101	SUR	19890515

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
B-G-1	RPV STUD 35-1-10A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-10A	RPV STUD	RPV-101	SUR	19890515
	RPV STUD 35-1-17A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-17A	RPV STUD	RPV-101	SUR	19890515
	RPV STUD 35-1-24A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-24A	RPV STUD	RPV-101	SUR	19890515
	RPV STUD 35-1-31A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-31A	RPV STUD	RPV-101	SUR	19890515
	RPV STUD 35-1-38A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-38A	RPV STUD	RPV-101	SUR	19890515
	RPV STUD 35-1-45A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-45A	RPV STUD	RPV-101	SUR	19890515
	RPV STUD 35-1-52A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-52A	RPV STUD	RPV-101	SUR	19890515
	RPV STUD 35-1-59A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-59A	RPV STUD	RPV-101	SUR	19890515
	RPV STUD 35-1-66A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-66A	RPV STUD	RPV-101	SUR	19890515
	RPV STUD 35-1-73A	RPV STUD	RPV-101	VOL	19890516
	RPV STUD 35-1-73A	RPV STUD	RPV-101	SUR	19890515
	RPV NUT 36-1-3A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-3A	RPV NUT	RPV-101	SUR	19890516
	RPV NUT 36-1-10A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-10A	RPV NUT	RPV-101	SUR	19890516
	RPV NUT 36-1-17A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-17A	RPV NUT	RPV-101	SUR	19890516
	RPV NUT 36-1-24A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-24A	RPV NUT	RPV-101	SUR	19890516
	RPV NUT 36-1-31A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-31A	RPV NUT	RPV-101	SUR	19890516
	RPV NUT 36-1-38A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-38A	RPV NUT	RPV-101	SUR	19890516
	RPV NUT 36-1-45A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-45A	RPV NUT	RPV-101	SUR	19890516

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/
B-G-1	RPV NUT 36-1-52A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-52A	RPV NUT	RPV-101	SUR	19890515
	RPV NUT 36-1-59A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-59A	RPV NUT	RPV-101	SUR	19890516
	RPV NUT 36-1-66A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-66A	RPV NUT	RPV-101	SUR	19890516
	RPV NUT 36-1-73A	RPV NUT	RPV-101	VOL	19890518
	RPV NUT 36-1-73A	RPV NUT	RPV-101	SUR	19890516
	RPV WASHERS	RPV WASHER*	RPV-101	VT-1	19890515
	COUNT =	45			
B-G-2	CRD HOUSING BLT	CRD HOUSING BLT	RPV-102	VT-1	19890511
	CRD HOUSING 18-59 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 22-59 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 42-59 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890529
	CRD HOUSING 38-55 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890529
	CRD HOUSING 46-55 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890526
	CRD HOUSING 18-51 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 30-51 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 06-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890426
	CRD HOUSING 14-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890426
	CRD HOUSING 22-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 54-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 02-43 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890524
	CRD HOUSING 34-43 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 50-43 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 22-39 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 26-39 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 54-39 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 02-35 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890426
	CRD HOUSING 18-35 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890524
	CRD HOUSING 30-35 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 58-35 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525

*Washers: 36-1-3A; 36-1-10A; 36-1-17A; 36-1-24A; 36-1-31A; 36-1-38A; 36-1-45A, 36-1-52A; 36-1-59A; 36-1-66A; 36-1-73A

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
B-G-2	CRD HOUSING 30-31 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890513
	CRD HOUSING 58-23 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 22-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 30-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 46-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 14-15 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890426
	CRD HOUSING 22-15 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890524
	CRD HOUSING 38-15 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 50-15 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 10-11 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890426
	CRD HOUSING 18-11 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890508
	CRD HOUSING 26-11 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890509
	CRD HOUSING 18-07 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890508
	CRD HOUSING 30-07 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 38-07 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 30-03 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	CRD HOUSING 38-03 BLT	CRD HOUSING BLT	RPV-102	VT-1	19890525
	RCIC-V-8-BLT	VALVE BOLTING	RCIC-101	VT-1	19890525
	HPCS-V-51-BLT	VALVE BOLTING	HPCS-101	VT-1	19890516
	LPCS-V-6-BLT	VALVE BOLTING	LPCS-101	VT-1	19890520
	RHR-V-41B-BLT	VALVE BOLTING	RHR-102	VT-1	19890601
	RHR-V-111B-BLT	VALVE BOLTING	RHR-102	VT-1	19890601
	RHR-V-53A-BLT	VALVE BOLTING	RHR-105	VT-1	19890223
	8MSR-4A-2BD	FLANGE BOLTING	MS-101	VT-1	19890518
	MS-RV-4A-BLT	VALVE BOLTING	MS-101	VT-1	19890518
	8MSR-1B-2BD	FLANGE BOLTING	MS-102	VT-1	19890603
	RWCU-V-40-BLT	VALVE BOLTING	RFW-103	VT-1	19890525
	RRC-V-23A-BLT	VALVE BOLTING	RRC-101	VT-1	19890523
	RRC-V-67B-BLT	VALVE BOLTING	RRC-102	VT-1	19890523
	RWCU-V-101-BLT	VALVE BOLTING	RWCU-101	VT-1	19890606
	RWCU-V-106-BLT	VALVE BOLTING	RWCU-101	VT-1	19890608

COUNT = 53

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
B-J	6SPARE-1	SPARE NZ-FLANGE	RPV-102	VOL	19890519
	6SPARE-1	SPARE NZ-FLANGE	RPV-102	SUR	19890520
	10RCIC(12)-5	VALVE TO PIPE	RCIC-101	VOL	19890522
	10RCIC(12)-5	VALVE TO PIPE	RCIC-101	SUR	19890520
	10RCIC(12)-5A	PIPE TO PIPE	RCIC-101	VOL	19890530
	10RCIC(12)-5A	PIPE TO PIPE	RCIC-101	SUR	19890530
	10RCIC(12)-6	PIPE TO EL	RCIC-101	VOL	19890530
	10RCIC(12)-6	PIPE TO EL	RCIC-101	SUR	19890520
	10RCIC(12)-7	EL TO PIPE	RCIC-101	VOL	19890530
	10RCIC(12)-7	EL TO PIPE	RCIC-101	SUR	19890520
	12LPCS(1)-8	PIPE TO EL	LPCS-101	VOL	19890603
	12LPCS(1)-8	PIPE TO EL	LPCS-101	SUR	19890603
	12LPCS(1)-9	EL TO PIPE	LPCS-101	VOL	19890603
	12LPCS(1)-9	EL TO PIPE	LPCS-101	SUR	19890603
	12LPCS(1)-10	PIPE TO PIPE	LPCS-101	VOL	19890502
	12LPCS(1)-10	PIPE TO PIPE	LPCS-101	SUR	19890601
	12LPCS(1)-11	PIPE TO EL	LPCS-101	VOL	19890605
	12LPCS(1)-11	PIPE TO EL	LPCS-101	SUR	19890601
	12LPCS(1)-12	EL TO PIPE	LPCS-101	VOL	19890605
	12LPCS(1)-12	EL TO PIPE	LPCS-101	SUR	19890601
	12LPCS(1)-13	PIPE TO EL	LPCS-101	VOL	19890601
	12LPCS(1)-13	PIPE TO EL	LPCS-101	SUR	19890531
	12LPCS(1)-14	EL TO PIPE	LPCS-101	VOL	19890601
	12LPCS(1)-14	EL TO PIPE	LPCS-101	SUR	19890531
	12LPCS(1)-17	PIPE TO EL	LPCS-101	VOL	19890605
	12LPCS(1)-17	PIPE TO EL	LPCS-101	SUR	19890605
	12LPCS(1)-18	EL TO PIPE	LPCS-101	VOL	19890522
	12LPCS(1)-18	EL TO PIPE	LPCS-101	SUR	19890520
	12LPCS(1)-18/4LPCS(1)-4	WOL TO PIPE	LPCS-101	SUR	19890520
	4LPCS(1)-2	PIPE TO WOL	LPCS-101	VOL	19890522
	4LPCS(1)-2	PIPE TO WOL	LPCS-101	SUR	19890520
	12LPCS(1)-19	PIPE TO VLV	LPCS-101	VOL	19890522
	12LPCS(1)-19	PIPE TO VLV	LPCS-101	SUR	19890520
	12LPCS(1)-20	VLV TO PIPE	LPCS-101	VOL	19890522

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
B-J	12LPCS(1)-20	VLV TO PIPE	LPCS-101	SUR	19890520
	14LPCI(1)A-11	PIPE TO EL	RHR-101	VOL	19890605
	14LPCI(1)A-11	PIPE TO EL	RHR-101	SUR	19890605
	14LPCI(1)A-12	EL TO PIPE	RHR-101	VOL	19890605
	14LPCI(1)A-12	EL TO PIPE	RHR-101	SUR	19890506
	14LPCI(1)A-13	PIPE TO VLV	RHR-101	VOL	19890605
	14LPCI(1)A-13	PIPE TO VLV	RHR-101	SUR	19890605
	14LPCI(1)A-14	VLV TO PIPE	RHR-101	VOL	19890605
	14LPCI(1)A-14	VLV TO PIPE	RHR-101	SUR	19890605
	14LPCI(1)B-18	EL TO PIPE	RHR-102	VOL	19890601
	14LPCI(1)B-18	EL TO PIPE	RHR-102	SUR	19890601
	14LPCI(1)B-19	PIPE TO EL	RHR-102	VOL	19890601
	14LPCI(1)B-19	PIPE TO EL	RHR-102	SUR	19890601
	14LPCI(1)B-20	EL TO PIPE	RHR-102	VOL	19890601
	14LPCI(1)B-20	EL TO PIPE	RHR-102	SUR	19890601
	14LPCI(1)B-21	PIPE TO REDUCER	RHR-102	VOL	19890601
	14LPCI(1)B-21	PIPE TO REDUCER	RHR-102	SUR	19890601
	20RHR(2)-14	PIPE TO EL	RHR-104	VOL	19890524
	20RHR(2)-14	PIPE TO EL	RHR-104	SUR	19890524
	20RHR(2)-15	EL TO PIPE	RHR-104	VOL	19890524
	20RHR(2)-15	EL TO PIPE	RHR-104	SUR	19890524
	20RHR(2)-16	PIPE TO EL	RHR-104	VOL	19890524
	20RHR(2)-16	PIPE TO EL	RHR-104	SUR	19890524
	20RHR(2)-17	EL TO PIPE	RHR-104	VOL	19890524
	20RHR(2)-17	EL TO PIPE	RHR-104	SUR	19890524
	20RHR(2)-18	PIPE TO VALVE	RHR-104	VOL	19890525
	20RHR(2)-18	PIPE TO VALVE	RHR-104	SUR	19890524
	12RHR(1)A-1D	VALVE TO PIPE	RHR-105	VOL	19890531
	12RHR(1)A-1D	VALVE TO PIPE	RHR-105	SUR	19890531
	26MS(1)A-6LDI	EL SEAM	MS-101	VOL	19890603
	26MS(1)A-6LDI	EL SEAM	MS-101	SUR	19890603
	26MS(1)A-6LDO	EL SEAM	MS-101	VOL	19890603
	26MS(1)A-6LDO	EL SEAM	MS-101	SUR	19890603
	MS-V-22A/2MS(9)-4	DRAIN CONN	MS-101	SUR	19890612

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
B-J	26MS(1)B-5/10RCIC(12)-4	PIPE TO SWL	MS-102	VOL	19890603
	26MS(1)B-5/10RCIC(12)-4	PIPE TO SWL	MS-102	SUR	19890603
	26MS(1)B-9/8MSR-1B	PIPE TO SWL	MS-102	VOL	19890605
	26MS(1)B-9/8MSR-1B	PIPE TO SWL	MS-102	SUR	19890605
	8MSR-1B1	SWL TO PIPE	MS-102	VOL	19890605
	8MSR-1B1	SWL TO PIPE	MS-102	SUR	19890603
	26MS(1)C-4LUI	EL SEAM	MS-103	VOL	19890530
	26MS(1)C-4LUI	EL SEAM	MS-103	SUR	19890527
	26MS(1)C-4LUO	EL SEAM	MS-103	VOL	19890530
	26MS(1)C-4LUO	EL SEAM	MS-103	SUR	19890527
	26MS(1)C-4	EL TO PIPE	MS-103	VOL	19890530
	26MS(1)C-4	EL TO PIPE	MS-103	SUR	19890527
	12RFW(1)AC-1	TEE TO PIPE	RFW-101	VOL	19890520
	12RFW(1)AC-1	TEE TO PIPE	RFW-101	SUR	19890520
	12RFW(1)AC-2	PIPE TO EL	RFW-101	VOL	19890520
	12RFW(1)AC-2	PIPE TO EL	RFW-101	SUR	19890520
	12RFW(1)AC-5	EL TO PIPE	RFW-101	VOL	19890520
	12RFW(1)AC-5	EL TO PIPE	RFW-101	SUR	19890520
	24RFW(1)B-4	PENE TO VALVE	RFW-102	VOL	19890606
	24RFW(1)B-4	PENE TO VALVE	RFW-102	SUR	19890606
	24RFW(1)B-8	PIPE TO VALVE	RFW-102	VOL	19890602
	24RFW(1)B-8	PIPE TO VALVE	RFW-102	SUR	19890602
	24RFW(1)B-9	VALVE TO PIPE	RFW-102	VOL	19890602
	24RFW(1)B-9	VALVE TO PIPE	RFW-102	SUR	19890602
	12RFW(1)BE-1	TEE TO PIPE	RFW-102	VOL	19890530
	12RFW(1)BE-1	TEE TO PIPE	RFW-102	SUR	19890530
	12RFW(1)BE-3	EL TO PIPE	RFW-102	VOL	19890530
	12RFW(1)BE-3	EL TO PIPE	RFW-102	SUR	19890530
	12RFW(1)BE-4	PIPE TO EL	RFW-102	VOL	19890530
	12RFW(1)BE-4	PIPE TO EL	RFW-102	SUR	19890530
	12RFW(1)BE-5	EL TO PIPE	RFW-102	VOL	19890530
	12RFW(1)BE-5	EL TO PIPE	RFW-102	SUR	19890530
	12RFW(1)BE-6	PIPE TO EL	RFW-102	VOL	19890530
	12RFW(1)BE-6	PIPE TO EL	RFW-102	SUR	19890527

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
B-J	12RFW(1)BE-7	EL TO PIPE	RFW-102	VOL	19890530
	12RFW(1)BE-7	EL TO PIPE	RFW-102	SUR	19890527
	24RRC(2)A-10/4RRC(8)-4S	PIPE TO SWL	RRC-101	VOL	19890524
	24RRC(2)A-10/4RRC(8)-4S	PIPE TO SWL	RRC-101	SUR	19890523
	4RRC(8)2A-1	SWL TO PIPE	RRC-101	VOL	19890524
	4RRC(8)2A-1	SWL TO PIPE	RRC-101	SUR	19890523
	4RRC(8)2A-2	PIPE TO FLANGE	RRC-101	VOL	19890524
	4RRC(8)2A-2	PIPE TO FLANGE	RRC-101	SUR	19890523
	24RRC(2)A-10/4RRC(4)-4S	PIPE TO SWL	RRC-101	VOL	19890524
	24RRC(2)A-10/4RRC(4)-4S	PIPE TO SWL	RRC-101	SUR	19890523
	24RRC(1)A-13/8CAP	PIPE TO SWL	RRC-101	VOL	19890518
	24RRC(1)A-13/8CAP	PIPE TO SWL	RRC-101	SUR	19890517
	24RRC(1)A-13/8CAP-1	SWL TO PIPE	RRC-101	VOL	19890518
	24RRC(1)A-13/8CAP-1	SWL TO PIPE	RRC-101	SUR	19890517
	4RRC(8)1A-1	SWL TO PIPE	RRC-101	VOL	19890518
	4RRC(8)1A-1	SWL TO PIPE	RRC-101	SUR	19890517
	4RRC(8)1A-2	PIPE TO FLANGE	RRC-101	VOL	19890518
	4RRC(8)1A-2	PIPE TO FLANGE	RRC-101	SUR	19890517
	4RRC(51)-5A	PIPE TO PIPE	RRC-104	VOL	19890513
	4RRC(51)-5A	PIPE TO PIPE	RRC-104	SUR	19890513
	4RRC(51)-5B	PIPE TO PIPE	RRC-104	VOL	19890513
	4RRC(51)-5B	PIPE TO PIPE	RRC-104	SUR	19890513
	12RRC(7)A-3LD	PIPE SEAM	RRC-106	SUR	19890516
	12RRC(7)A-4LU	PIPE SEAM	RRC-106	VOL	19890517
	12RRC(7)A-4LU	PIPE SEAM	RRC-106	SUR	19890516
	12RRC(7)A-4	PIPE TO EL	RRC-106	VOL	19890517
	12RRC(7)A-4	PIPE TO EL	RRC-106	SUR	19890516
	12RRC(7)A-4LDI	EL SEAM	RRC-106	VOL	19890517
	12RRC(7)A-4LDI	EL SEAM	RRC-106	SUR	19890516
	12RRC(7)A-4LDO	EL SEAM	RRC-106	VOL	19890517
	12RRC(7)A-4LDO	EL SEAM	RRC-106	SUR	19890516
	12RRC(7)A-5LUI	EL SEAM	RRC-106	VOL	19890517
	12RRC(7)A-5LUI	EL SEAM	RRC-106	SUR	19890516
	12RRC(7)A-5LUO	EL SEAM	RRC-106	VOL	19890517

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
B-J	12RRC(7)A-5LUO	EL SEAM	RRC-106	SUR	19890516
	12RRC(7)A-5	EL TO PIPE	RRC-106	VOL	19890517
	12RRC(7)A-5	EL TO PIPE	RRC-106	SUR	19890516
	12RRC(7)A-5LD	PIPE SEAM	RRC-106	VOL	19890517
	12RRC(7)A-5LD	PIPE SEAM	RRC-106	SUR	19890516
	12RRC(7)A-6LU	PIPE SEAM	RRC-106	VOL	19890517
	12RRC(7)A-6LU	PIPE SEAM	RRC-106	SUR	19890516
	12RRC(7)A-6	PIPE TO SWL	RRC-106	VOL	19890517
	12RRC(7)A-6	PIPE TO SWL	RRC-106	SUR	19890516
	4RRC(4)A-2	PIPE TO TEE	RRC-108	VOL	19890531
	4RRC(4)A-6	PIPE TO EL	RRC-108	VOL	19890531
	4RRC(4)A-6	PIPE TO EL	RRC-108	SUR	19890531
	4RRC(4)A-7	EL TO PIPE	RRC-108	VOL	19890531
	4RRC(4)A-7	EL TO PIPE	RRC-108	SUR	19890531
	COUNT =	150			
B-K-1	RCIC-1C-13(W)	8 WELDED LUGS	RCIC-101	SUR	19890601
	HPCS-910N(W)	4 WELDED LUGS	HPCS-101	SUR	19890602
	HPCS-64(W)	4 WELDED LUGS	HPCS-101	SUR	19890516
	RHR-SA-39(W)	8 WELDED LUGS	RHR-105	SUR	19890516
	MS-HB-1(W)	4 WELDED LUGS	MS-102	SUR	19890603
	RFW-157(W)	4 WELDED LUGS	RFW-101	SUR	19890606
	RRC-HA-1(W)	4 WELDED LUGS	RRC-101	SUR	19890523
	RWCU-1C-17(W)	8 WELDED LUGS	RWCU-101	SUR	19890615
	COUNT =	8			
B-M-2	RHR-V-23-BDY	VALVE BODY	RCIC-102	VT-3	19890606
	RCIC-V-65-BDY	VALVE BODY	RCIC-102	VT-3	19890520
	RCIC-V-66-BDY	VALVE BODY	RCIC-102	VT-3	19890513
	RHR-V-41A-BDY	VALVE BODY	RHR-101	VT-3	19890603
	RHR-V-53A-BDY	VALVE BODY	RHR-105	VT-3	19890223
	MS-V-22A-BDY	VALVE BODY	MS-101	VT-3	19890602

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
B-M-2	MS-V-28A-BDY	VALVE BODY	MS-101	VT-3	19890526
	MS-V-22D-BDY	VALVE BODY	MS-104	VT-3	19890602
	MS-V-28D-BDY	VALVE BODY	MS-104	VT-3	19890521
	COUNT =	9			
B-N-1	RPV INTERIOR	RPV INTERIOR	RPV-101	VT-3	19890527
	COUNT =	1			
B-P	RPV-PB-101(L)	LK PRES BNDRY	RPV-101	VT-2	19890626
	RPV-PB-102(L)	LK PRES BNDRY	RPV-102	VT-2	19890626
	RCIC-PB-101(L)	LK PRES BNDRY	RCIC-101	VT-2	19890626
	RCIC-PB-102(L)	LK PRES BNDRY	RCIC-102	VT-2	19890626
	HPCS-PB-101(L)	LK PRES BNDRY	HPCS-101	VT-2	19890626
	LPCS-PB-101(L)	LK PRES BNDRY	LPCS-101	VT-2	19890626
	RHR-PB-101(L)	LK PRES BNDRY	RHR-101	VT-2	19890626
	RHR-PB-102(L)	LK PRES BNDRY	RHR-102	VT-2	19890626
	RHR-PB-103(L)	LK PRES BNDRY	RHR-103	VT-2	19890626
	RHR-PB-104(L)	LK PRES BNDRY	RHR-104	VT-2	19890626
	RHR-PB-105(L)	LK PRES BNDRY	RHR-105	VT-2	19890626
	RHR-PB-106(L)	LK PRES BNDRY	RHR-106	VT-2	19890626
	MS-PB-101(L)	LK PRES BNDRY	MS-101	VT-2	19890626
	MS-PB-102(L)	LK PRES BNDRY	MS-102	VT-2	19890626
	MS-PB-103(L)	LK PRES BNDRY	MS-103	VT-2	19890626
	MS-PB-104(L)	LK PRES BNDRY	MS-104	VT-2	19890626
	MS-PB-105(L)	LK PRES BNDRY	MS-105	VT-2	19890626
	MS-PB-106(L)	LK PRES BNDRY	MS-106	VT-2	19890626
	RFW-PB-101(L)	LK PRES BNDRY	RFW-101	VT-2	19890626
	RFW-PB-102(L)	LK PRES BNDRY	RFW-102	VT-2	19890626
	RFW-PB-103(L)	LK PRES BNDRY	RFW-103	VT-2	19890626
	RRC-PB-101(L)	LK PRES BNDRY	RRC-101	VT-2	19890626
	RRC-PB-102(L)	LK PRES BNDRY	RRC-102	VT-2	19890626
	RRC-PB-103(L)	LK PRES BNDRY	RRC-103	VT-2	19890626

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
B-P	RRC-PB-104(L)	LK PRES BNDRY	RRC-104	VT-2	19890626
	RRC-PB-105(L)	LK PRES BNDRY	RRC-105	VT-2	19890626
	RRC-PB-106(L)	LK PRES BNDRY	RRC-106	VT-2	19890626
	RRC-PB-107(L)	LK PRES BNDRY	RRC-107	VT-2	19890626
	RRC-PB-108(L)	LK PRES BNDRY	RRC-108	VT-2	19890626
	RRC-PB-109(L)	LK PRES BNDRY	RRC-109	VT-2	19890626
	RRC-PB-110(L)	LK PRES BNDRY	RRC-110	VT-2	19890626
	RRC-PB-111(L)	LK PRES BNDRY	RRC-111	VT-2	19890626
	RWCU-PB-101(L)	LK PRES BNDRY	RWCU-101	VT-2	19890626
	SLC-PB-101(L)	LK PRESS BNDRY	SLC-101	VT-2	19890626
	COUNT =	34			
C-A	AC-4	SHEL/HD CIR WLD	RHR-214	VOL	19890524
	COUNT =	1			
C-B	AN-4	OUT NZ/SHEL WLD	RHR-214	VOL	19890524
	AN-4	OUT NZ/SHEL WLD	RHR-214	SUR	19890523
	COUNT =	2			
C-C	RHR-158(W)	8 WELDED LUGS	RHR-201	SUR	19890526
	RHR-1001N(W)	8 WELDED LUGS	RHR-201	SUR	19890520
	RHR-362(W)	8 WELDED LUGS	RHR-201	SUR	19890515
	RHR-597(W)	8 WELDED LUGS	RHR-204	SUR	19890520
	RHR-53(W)	4 WELDED LUGS	RHR-207	SUR	19890515
	RHR-465(W)	8 WELDED LUGS	RHR-207	SUR	19890515
	RHR-479(W)	4 WELDED LUGS	RHR-207	SUR	19890523
	RHR-486(W)	4 WELDED LUGS	RHR-207	SUR	19890523
	MS-117(W)	1 WELDED SADDLE	MS-201	SUR	19890509
	MS-173(W)	2 WELDED LUGS	MS-202	SUR	19890505
	MS-998N(W)	8 WELDED LUGS	MS-202	SUR	19890503
	MS-1003N(W)	1 WELDED SADDLE	MS-203	SUR	19890509

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
C-C	MS-39(W)	1 WELDED SADDLE	MS-203	SUR	19890508
	MS-30(W)	1 WELDED SADDLE	MS-203	SUR	19890510
	MS-26(W)	8 WELDED LUGS	MS-203	SUR	19890510
	MS-1010N(W)	8 WELDED LUGS	MS-204	SUR	19890519
	MS-61(W)	1 WELDED SADDLE	MS-204	SUR	19890508
	MS-59(W)	1 WELDED SADDLE	MS-204	SUR	19890508
	MS-51(W)	4 WELDED LUGS	MS-204	SUR	19890508
	MS-181(W)	3 WELDED SADDLE	MS-205	SUR	19890508
	MS-182(W)	1 WELDED SADDLE	MS-205	SUR	19890508
	COUNT =	21			
C-F-2	14RHR(1)A-18	PIPE TO EL	RHR-201	SUR	19890525
	14RHR(1)A-18	PIPE TO EL	RHR-201	VOL	19890526
	14RHR(1)A-21	EL TO PIPE	RHR-201	SUR	19890525
	14RHR(1)A-21	EL TO PIPE	RHR-201	VOL	19890526
	12RHR(1)A-1B	PIPE TO FLANGE	RHR-201	VOL	19890601
	12RHR(1)A-1B	PIPE TO FLANGE	RHR-201	SUR	19890531
	12RHR(1)A-1C	FLANGE TO PIPE	RHR-201	VOL	19890601
	12RHR(1)A-1C	FLANGE TO PIPE	RHR-201	SUR	19890531
	12RHR(1)A-4B	PIPE TO VALVE	RHR-201	SUR	19890604
	12RHR(1)A-4B	PIPE TO VALVE	RHR-201	VOL	19890604
	18RHR(4)A-8	PIPE TO EL	RHR-203	SUR	19890524
	18RHR(4)A-8	PIPE TO EL	RHR-203	VOL	19890524
	20RHR(2)A-7	EL TO PIPE	RHR-205	SUR	19890503
	20RHR(2)A-7	EL TO PIPE	RHR-205	VOL	19890503
	24RHR(3)-17	FLANGE TO ELL	RHR-211	VOL	19890504
	24RHR(3)-17	FLANGE TO ELL	RHR-211	SUR	19890504
	COUNT =	16			
D-A	MSRV-4A-2(W)	WELDED ATTACH	MS-304	VT-3	19890505
	MSRV-4A-3(W)	WELDED ATTACH	MS-304	VT-3	19890505
	MSRV-4A-1(W)	WELDED ATTACH	MS-304	VT-3	19890505

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
D-A	MSRV-4A-4(W)	WELDED ATTACH	MS-304	VT-3	19890506
	MSRV-4A-5(W)	WELDED ATTACH	MS-304	VT-3	19890506
	MS-277(W)	WELDED ATTACH	MS-304	VT-3	19890506
	MS-278(W)	WELDED ATTACH	MS-304	VT-3	19890506
	MSRV-4A-8(W)	WELDED ATTACH	MS-304	VT-3	19890506
	MSRV-4A-10(W)	WELDED ATTACH	MS-304	VT-3	19890506
	MS-279(W)	WELDED ATTACH	MS-304	VT-3	19890506
	MSRV-2B-3(W)	WELDED ATTACH	MS-306	VT-3	19890505
	MSRV-2B-1(W)	WELDED ATTACH	MS-306	VT-3	19890505
	MSRV-2B-2(W)	WELDED ATTACH	MS-306	VT-3	19890523
	MSRV-2B-6(W)	WELDED ATTACH	MS-306	VT-3	19890506
	MSRV-2B-5(W)	WELDED ATTACH	MS-306	VT-3	19890523
	MS-322(W)	WELDED ATTACH	MS-306	VT-3	19890506
	MSRV-2B-7(W)	WELDED ATTACH	MS-306	VT-3	19890506
	MSRV-2B-8(W)	WELDED ATTACH	MS-306	VT-3	19890506
	MS-323(W)	WELDED ATTACH	MS-306	VT-3	19890506
	MS-344(W)	WELDED ATTACH	MS-306	VT-3	19890506
	MSRV-5B-2(W)	WELDED ATTACH	MS-309	VT-3	19890523
	MSRV-5B-1(W)	WELDED ATTACH	MS-309	VT-3	19890523
	MSRV-5B-5(W)	WELDED ATTACH	MS-309	VT-3	19890523
	MSRV-5B-4(W)	WELDED ATTACH	MS-309	VT-3	19890523
	MS-345(W)	WELDED ATTACH	MS-309	VT-3	19890522
	MSRV-1C-2(W)	WELDED ATTACH	MS-310	VT-3	19890505
	MSRV-1C-3(W)	WELDED ATTACH	MS-310	VT-3	19890505
	MSRV-1C-1(W)	WELDED ATTACH	MS-310	VT-3	19890505
	MS-294(W)	WELDED ATTACH	MS-310	VT-3	19890506
	MSRV-1C-4(W)	WELDED ATTACH	MS-310	VT-3	19890506
	MSRV-1C-5(W)	WELDED ATTACH	MS-310	VT-3	19890506
	MS-295(W)	WELDED ATTACH	MS-310	VT-3	19890506
	MS-336(W)	WELDED ATTACH	MS-310	VT-3	19890515
	MSRV-4C-2(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MSRV-4C-3(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MSRV-4C-1(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MS-305(W)	WELDED ATTACH	MS-313	VT-3	19890522

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
D-A	MSRV-4C-5(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MSRV-4C-6(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MSRV-4C-4(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MSRV-4C-8(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MSRV-4C-7(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MS-306(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MS-307(W)	WELDED ATTACH	MS-313	VT-3	19890522
	MS-318(W)	WELDED ATTACH	MS-318	VT-3	19890506
	COUNT =	45			
D-B	SW-124(W)	WELDED ATTACH	SW-301	VT-3	19890525
	SW-237(W)	WELDED ATTACH	SW-302	VT-3	19890420
	SW-243(W)	WELDED ATTACH	SW-302	VT-3	19890420
	SW-155(W)	WELDED ATTACH	SW-303	VT-3	19890525
	SW-154(W)	WELDED ATTACH	SW-303	VT-3	19890525
	SW-141(W)	WELDED ATTACH	SW-303	VT-3	19890502
	SW-136(W)	WELDED ATTACH	SW-303	VT-3	19890502
	SW-135(W)	WELDED ATTACH	SW-303	VT-3	19890525
	SW-132(W)	WELDED ATTACH	SW-303	VT-3	19890524
	SW-230(W)	WELDED ATTACH	SW-303	VT-3	19890524
	SW-131(W)	WELDED ATTACH	SW-303	VT-3	19890524
	SW-130(W)	WELDED ATTACH	SW-303	VT-3	19890524
	SW-129(W)	WELDED ATTACH	SW-303	VT-3	19890502
	SW-128(W)	WELDED ATTACH	SW-303	VT-3	19890502
	SW-8(W)	WELDED ATTACH	SW-303	VT-3	19890420
	SW-9(W)	WELDED ATTACH	SW-303	VT-3	19890420
	SW-918N(W)	WELDED ATTACH	SW-303	VT-3	19890420
	SW-20(W)	WELDED ATTACH	SW-303	VT-3	19890420
	SW-36(W)	WELDED ATTACH	SW-305	VT-3	19890419
	SW-35(W)	WELDED ATTACH	SW-305	VT-3	19890419
	SW-33(W)	WELDED ATTACH	SW-305	VT-3	19890419
	SW-32(W)	WELDED ATTACH	SW-305	VT-3	19890419
	SW-31(W)	WELDED ATTACH	SW-305	VT-3	19890425

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
D-B	SW-194(W)	WELDED ATTACH	SW-305	VT-3	19890503
	SW-180(W)	WELDED ATTACH	SW-307	VT-3	19890503
	SW-87(W)	WELDED ATTACH	SW-307	VT-3	19890425
	SW-88(W)	WELDED ATTACH	SW-307	VT-3	19890419
	SW-89(W)	WELDED ATTACH	SW-307	VT-3	19890419
	SW-282(W)	WELDED ATTACH	SW-311	VT-3	19890420
	SW-291(W)	WELDED ATTACH	SW-311	VT-3	19890420
	SW-982N(W)	WELDED ATTACH	SW-312	VT-3	19890525
	SW-984N(W)	WELDED ATTACH	SW-313	VT-3	19890525
	COUNT =	32			
D-C	FPC-44(W)	WELDED ATTACH	FPC-301	VT-3	19890419
	FPC-42(W)	WELDED ATTACH	FPC-301	VT-3	19890419
	FPC-231(W)	WELDED LUG	FPC-305	VT-3	19890513
	COUNT =	3			
IWF	RCIC-1C-15	PSA-3 SN(2)	RCIC-101	VT3H	19890515
	RCIC-1C-5	PSA-10 SNUBBER	RCIC-101	VT3H	19890516
	RCIC-1C-13	PSA-3 SN(2)	RCIC-101	VT3H	19890515
	RCIC-61	SPRING	RCIC-101	VT3H	19890515
	RCIC-66	SPRING	RCIC-101	VT3H	19890515
	RCIC-1C-2	PSA-3 SN(2)	RCIC-101	VT3H	19890506
	RCIC-1C-1	PSA-1 SNUBBER	RCIC-101	VT3H	19890506
	RCIC-1C-3	PSA-1 SNUBBER	RCIC-101	VT3H	19890506
	RCIC-59	SPRING (2)	RCIC-101	VT3H	19890506
	RCIC-1C-14	PSA-1 SNUBBER	RCIC-101	VT3H	19890506
	RCIC-31	SPRING	RCIC-205	VT3H	19890503
	RCIC-13	BOX	RCIC-205	VT3H	19890524
	RCIC-12	BOX	RCIC-205	VT3H	19890524
	RCIC-11	BOX	RCIC-205	VT3H	19890501
	RCIC-9	BOX	RCIC-205	VT3H	19890524
	RCIC-10	STRUT	RCIC-205	VT3H	19890501

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
IWF	RCIC-16	BOX	RCIC-205	VT3H	19890502
	RCIC-17	BOX	RCIC-205	VT3H	19890502
	RCIC-966N	STRUT	RCIC-205	VT3H	19890501
	LPCS-905N	PSA-3 SNUBBER	LPCS-101	VT3H	19890515
	LPCS-906N	SPRING	LPCS-101	VT3H	19890515
	LPCS-64	SPRING	LPCS-101	VT3H	19890515
	LPCS-63	SPRING	LPCS-101	VT3H	19890515
	LPCS-9	SPRING	LPCS-202	VT3H	19890502
	LPCS-46	BOX	LPCS-202	VT3H	19890502
	LPCS-31	BOX	LPCS-202	VT3H	19890502
	RHR-527	SPRING	RHR-101	VT3H	19890505
	RHR-380	PSA-10 SNUBBER	RHR-101	VT3H	19890505
	RHR-381	PSA-10 SN(2)	RHR-101	VT3H	19890505
	RHR-383	PSA-35 SNUBBER	RHR-101	VT3H	19890505
	RHR-529	SPRING	RHR-101	VT3H	19890505
	RHR-158	STRUT	RHR-201	VT3H	19890520
	RHR-160	PSA-3 SNUBBER	RHR-201	VT3H	19890502
	RHR-604	SPRING	RHR-201	VT3H	19890525
	RHR-603	STRUT	RHR-201	VT3H	19890525
	RHR-599	STRUT	RHR-201	VT3H	19890520
	RHR-187	SPRING	RHR-201	VT3H	19890520
	RHR-149	STRUT	RHR-201	VT3H	19890520
	RHR-148	BOX	RHR-201	VT3H	19890520
	RHR-146	SPRING	RHR-201	VT3H	19890520
	RHR-144	SPRING	RHR-201	VT3H	19890520
	RHR-971N	ANCHOR	RHR-201	VT3H	19890506
	RHR-142	PSA-1 SN(2)	RHR-201	VT3H	19890520
	RHR-363	SPRING	RHR-201	VT3H	19890525
	RHR-361	PSA-3 SNUBBER	RHR-201	VT3H	19890525
	RHR-362	STRUT	RHR-201	VT3H	19890529
	RHR-357	PSA-10 SNUBBER	RHR-201	VT3H	19890525
	RHR-360	SPRING	RHR-201	VT3H	19890525
	RHR-359	PSA-3 SNUBBER	RHR-201	VT3H	19890525
	RHR-358	BOX	RHR-201	VT3H	19890525

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
IWF	RHR-356	STRUT	RHR-201	VT3H	19890520
	RHR-264	PSA-3 SN(2)	RHR-201	VT3H	19890520
	RHR-266	BOX	RHR-201	VT3H	19890525
	RHR-267	BOX	RHR-201	VT3H	19890525
	RHR-269	PSA-3 SNUBBER	RHR-201	VT3H	19890520
	RHR-280	SPRING	RHR-201	VT3H	19890525
	RHR-268	BOX	RHR-201	VT3H	19890525
	RHR-270	PSA-3 SNUBBER	RHR-201	VT3H	19890520
	RHR-271	PSA-3 SN(2)	RHR-201	VT3H	19890520
	RHR-351	SPRING	RHR-201	VT3H	19890525
	RHR-1012S	PIPE CLAMP	RHR-201	VT3H	19890525
	RHR-1011S	PIPE CLAMP	RHR-201	VT3H	19890525
	RHR-353	STRUT	RHR-201	VT3H	19890525
	RHR-352	STRUT	RHR-201	VT3H	19890525
	RHR-251	STRUT	RHR-202	VT3H	19890517
	RHR-278	BOX	RHR-203	VT3H	19890525
	RHR-277	PSA-3 SNUBBER	RHR-203	VT3H	19890525
	RHR-279	SPRING	RHR-203	VT3H	19890525
	RHR-276	PSA-3 SN(2)	RHR-203	VT3H	19890525
	RHR-274	PSA-3 SNUBBER	RHR-203	VT3H	19890525
	RHR-275	PSA-3 SNUBBER	RHR-203	VT3H	19890525
	RHR-369	STRUT	RHR-203	VT3H	19890520
	RHR-405	PSA-3 SNUBBER	RHR-203	VT3H	19890525
	RHR-408	STRUT	RHR-203	VT3H	19890525
	RHR-974N	PSA-3 SNUBBER	RHR-203	VT3H	19890520
	RHR-597	STRUT	RHR-204	VT3H	19890531
	RHR-58	ANCHOR	RHR-205	VT3H	19890524
	RHR-471	SPRING	RHR-205	VT3H	19890524
	RHR-56	SPRING	RHR-205	VT3H	19890524
	RHR-119	STRUT	RHR-205	VT3H	19890429
	RHR-120	STRUT	RHR-205	VT3H	19890429
	RHR-917N	SPRING	RHR-205	VT3H	19890524
	RHR-122	STRUT	RHR-206	VT3H	19890524
	RHR-124	STRUT	RHR-206	VT3H	19890524

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
IWF	RHR-123	BOX	RHR-206	VT3H	19890524
	RHR-125	STRUT	RHR-206	VT3H	19890501
	RHR-126	STRUT	RHR-206	VT3H	19890501
	RHR-127	BOX	RHR-206	VT3H	19890501
	RHR-128	BOX	RHR-206	VT3H	19890501
	RHR-53	SPRING	RHR-207	VT3H	19890531
	RHR-470	STRUT	RHR-207	VT3H	19890525
	RHR-911N	STRUT	RHR-207	VT3H	19890524
	RHR-304	STRUT	RHR-210	VT3H	19890518
	MS-HA-1	SPRING (2)	MS-101	VT3H	19890515
	MS-SA-5	PSA-35 SNUBBER	MS-101	VT3H	19890515
	MS-SB-3	PSA-35 SNUBBER	MS-102	VT3H	19890516
	MS-SB-4	PSA-35 SNUBBER	MS-102	VT3H	19890516
	MS-HB-3	SPRING (2)	MS-102	VT3H	19890516
	MS-SB-1	PSA-100 SNUBBER	MS-102	VT3H	19890522
	MS-SB-2	PSA-100 SNUBBER	MS-102	VT3H	19890516
	MS-2619-14	STRUT	MS-106	VT3H	19890430
	MS-2619-13	PSA-1 SNUBBER	MS-106	VT3H	19890430
	MS-2619-16	STRUT	MS-106	VT3H	19890430
	MS-2619-15	PSA-1 SNUBBER	MS-106	VT3H	19890430
	MS-2619-21	STRUT	MS-106	VT3H	19890524
	MS-2619-210	STRUT	MS-106	VT3H	19890524
	MS-2619-214	STRUT	MS-106	VT3H	19890505
	MS-2619-26	STRUT	MS-106	VT3H	19890524
	MS-2619-312	STRUT	MS-106	VT3H	19890524
	MS-2619-311	STRUT	MS-106	VT3H	19890524
	MS-2619-313	STRUT	MS-106	VT3H	19890524
	MS-2619-314	STRUT	MS-106	VT3H	19890524
	MS-2619-319	STRUT	MS-106	VT3H	19890608
	MS-2619-318	STRUT	MS-106	VT3H	19890524
	MS-2619-46	STRUT	MS-106	VT3H	19890524
	MS-2619-42A	STRUT	MS-106	VT3H	19890524
	MS-1019N	STRUT	MS-204	VT3H	19890515
	MS-58	SPRING (2)	MS-204	VT3H	19890515

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
IWF	MS-57	STRUT	MS-204	VT3H	19890515
	MS-87	SPRING	MS-204	VT3H	19890515
	MS-53	STRUT	MS-204	VT3H	19890515
	MS-54	STRUT	MS-204	VT3H	19890515
	MS-180	ROD	MS-205	VT3H	19890503
	MS-181	ROD	MS-205	VT3H	19890503
	MS-182	ROD	MS-205	VT3H	19890503
	RFW-942N	PSA-1 SN(2)	RFW-103	VT3H	19890430
	RRC-HA-1	SPRING	RRC-101	VT3H	19890517
	RRC-SA-19	PSA-35 SNUBBER	RRC-101	VT3H	19890517
	RRC-SA-20	PSA-35 SNUBBER	RRC-101	VT3H	19890517
	RRC-SA-25	PSA-35 SNUBBER	RRC-101	VT3H	19890517
	RRC-SA-2	PSA-35 SNUBBER	RRC-101	VT3H	19890517
	RRC-SA-1	PSA-35 SNUBBER	RRC-101	VT3H	19890517
	RWCU-1C-4	STRUT	RWCU-101	VT3H	19890610
	RWCU-1C-1	PSA-3 SNUBBER	RWCU-101	VT3H	19890613
	RWCU-927N	PSA-3SNUBBER	RWCU-301	VT3H	19890531
	SW-124	PSA-35 SN(2)	SW-301	VT3H	19890525
	SW-268	BOX	SW-302	VT3H	19890420
	SW-270	BOX	SW-302	VT3H	19890420
	SW-237	BOX	SW-302	VT3H	19890420
	SW-243	RIGID	SW-302	VT3H	19890420
	SW-269	BOX	SW-302	VT3H	19890420
	SW-156	STRUT	SW-303	VT3H	19890525
	SW-155	BOX	SW-303	VT3H	19890525
	SW-154	STRUT	SW-303	VT3H	19890525
	SW-229	STRUT	SW-303	VT3H	19890524
	SW-228	STRUT	SW-303	VT3H	19890524
	SW-146	STRUT	SW-303	VT3H	19890524
	SW-145	BOX	SW-303	VT3H	19890524
	SW-144	BOX	SW-303	VT3H	19890524
	SW-208	STRUT	SW-303	VT3H	19890524
	SW-143	STRUT	SW-303	VT3H	19890524
	SW-432	STRUT	SW-303	VT3H	19890524

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
IWF	SW-141	STRUT	SW-303	VT3H	19890502
	SW-136	BOX	SW-303	VT3H	19890502
	SW-135	STRUT	SW-303	VT3H	19890524
	SW-134	STRUT	SW-303	VT3H	19890524
	SW-133	STRUT	SW-303	VT3H	19890524
	SW-132	STRUT	SW-303	VT3H	19890524
	SW-230	BOX	SW-303	VT3H	19890524
	SW-131	BOX	SW-303	VT3H	19890524
	SW-130	RIGID	SW-303	VT3H	19890524
	SW-129	BOX	SW-303	VT3H	19890502
	SW-128	BOX	SW-303	VT3H	19890502
	SW-8	BOX	SW-303	VT3H	19890420
	SW-9	BOX	SW-303	VT3H	19890420
	SW-918N	STRUT	SW-303	VT3H	19890420
	SW-20	BOX	SW-303	VT3H	19890420
	SW-36	RIGID	SW-305	VT3H	19890419
	SW-35	STRUT	SW-305	VT3H	19890419
	SW-33	BOX	SW-305	VT3H	19890419
	SW-32	BOX	SW-305	VT3H	19890425
	SW-31	BOX	SW-305	VT3H	19890425
	SW-30	STRUT	SW-305	VT3H	19890425
	SW-86	STRUT	SW-307	VT3H	19890425
	SW-87	BOX	SW-307	VT3H	19890425
	SW-88	BOX	SW-307	VT3H	19890419
	SW-89	BOX	SW-307	VT3H	19890419
	SW-927N	BOX	SW-307	VT3H	19890429
	SW-928N	BOX	SW-307	VT3H	19890429
	SW-929N	BOX	SW-307	VT3H	19890429
	SW-282	BOX	SW-311	VT3H	19890420
	SW-291	BOX	SW-311	VT3H	19890420
	SW-982N	ANCHOR	SW-312	VT3H	19890525
	SW-984N	RIGID	SW-313	VT3H	19890525
	FPC-51	BOX	FPC-301	VT3H	19890525
	FPC-52	BOX	FPC-301	VT3H	19890525

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
IWF	FPC-179	BOX	FPC-302	VT3H	19890525
	FPC-180	BOX	FPC-302	VT3H	19890525
	FPC-181	BOX	FPC-302	VT3H	19890525
	FPC-177	SPRING	FPC-302	VT3H	19890525
	FPC-178	BOX	FPC-302	VT3H	19890525
	FPC-187	BOX	FPC-303	VT3H	19890525
	FPC-190	SPRING	FPC-303	VT3H	19890525
	FPC-194	BOX	FPC-304	VT3H	19890525
	FPC-211	STRUT	FPC-305	VT3H	19890525
	FPC-213	BOX	FPC-305	VT3H	19890525
	FPC-231	BOX	FPC-305	VT3H	19890531
	FPC-159	BOX	FPC-305	VT3H	19890525
	FPC-158	BOX	FPC-305	VT3H	19890525
	FPC-915N	RIGID	FPC-305	VT3H	19890525
	FPC-122	ANCHOR	FPC-306	VT3H	19890524
	FPC-120	BOX	FPC-306	VT3H	19890429
	FPC-119	SPRING	FPC-306	VT3H	19890429
	FPC-118	RIGID	FPC-306	VT3H	19890429
	RCC-909N	STRUT	RCC-301	VT3H	19890524
	RCC-327	STRUT	RCC-302	VT3H	19890524
	RCC-946N	RIGID	RCC-303	VT3H	19890525
	RCC-950N	RIGID	RCC-303	VT3H	19890525
	RCC-951N	RIGID	RCC-303	VT3H	19890525
	RCC-952N	RIGID	RCC-303	VT3H	19890525
	RCC-947N	RIGID	RCC-303	VT3H	19890525
	RCC-948N	RIGID	RCC-303	VT3H	19890525
	RCC-949N	SPRING	RCC-303	VT3H	19890525
	RCC-940N	RIGID	RCC-304	VT3H	19890525
	RCC-937N	RIGID	RCC-304	VT3H	19890525
	RCC-935N	RIGID	RCC-304	VT3H	19890525
	RCC-939N	RIGID	RCC-304	VT3H	19890525
	RCC-941N	RIGID	RCC-304	VT3H	19890525
	RCC-938N	RIGID	RCC-304	VT3H	19890525
	MS-276	SPRING	MS-304	VT3H	19890505

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
IWF	MSRV-4A-2	PSA-10 SNUBBER	MS-304	VT3H	19890505
	MSRV-4A-3	PSA-10 SNUBBER	MS-304	VT3H	19890505
	MSRV-4A-1	PSA-10 SNUBBER	MS-304	VT3H	19890505
	MSRV-4A-4	PSA-10 SNUBBER	MS-304	VT3H	19890506
	MSRV-4A-5	PSA-10 SNUBBER	MS-304	VT3H	19890506
	MS-277	SPRING	MS-304	VT3H	19890506
	MS-278	SPRING	MS-304	VT3H	19890506
	MSRV-4A-8	PSA-10 SNUBBER	MS-304	VT3H	19890506
	MSRV-4A-10	PSA-10 SNUBBER	MS-304	VT3H	19890506
	MSRV-4A-9	PSA-10 SNUBBER	MS-304	VT3H	19890506
	MSRV-4A-6	STRUT	MS-304	VT3H	19890506
	MSRV-4A-7	PSA-10 SNUBBER	MS-304	VT3H	19890506
	MS-279	SPRING	MS-304	VT3H	19890506
	MS-333	SPRING	MS-304	VT3H	19890506
	MSRV-4A-8PS	RIGID	MS-304	VT3H	19890506
	MS-320	SPRING	MS-306	VT3H	19890505
	MSRV-2B-3	PSA-35 SNUBBER	MS-306	VT3H	19890505
	MSRV-2B-1	PSA-10 SNUBBER	MS-306	VT3H	19890505
	MSRV-2B-4	PSA-10 SNUBBER	MS-306	VT3H	19890505
	MSRV-2B-2	PSA-10 SNUBBER	MS-306	VT3H	19890505
	MS-321	SPRING	MS-306	VT3H	19890506
	MSRV-2B-6	PSA-10 SNUBBER	MS-306	VT3H	19890506
	MS-322	SPRING	MS-306	VT3H	19890506
	MSRV-2B-7	PSA-10 SNUBBER	MS-306	VT3H	19890506
	MSRV-2B-8	PSA-10 SNUBBER	MS-306	VT3H	19890506
	MS-323	SPRING	MS-306	VT3H	19890506
	MS-344	SPRING	MS-306	VT3H	19890506
	MSRV-2B-9PS	RIGID	MS-306	VT3H	19890506
	MS-293	SPRING	MS-310	VT3H	19890505
	MSRV-1C-2	PSA-35 SNUBBER	MS-310	VT3H	19890505
	MSRV-1C-3	PSA-35 SNUBBER	MS-310	VT3H	19890505
	MSRV-1C-1	PSA-10 SNUBBER	MS-310	VT3H	19890505
	MSRV-1C-7	PSA-10 SNUBBER	MS-310	VT3H	19890505
	MS-294	SPRING	MS-310	VT3H	19890506

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF89A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
INF	MSRV-1C-4	PSA-10 SNUBBER	MS-310	VT3H	19890506
	MSRV-1C-5	PSA-10 SNUBBER	MS-310	VT3H	19890506
	MS-295	SPRING	MS-310	VT3H	19890506
	MS-336	SPRING	MS-310	VT3H	19890515
	MSRV-1C-6PS	RIGID	MS-310	VT3H	19890515
	MS-318	SPRING	MS-318	VT3H	19890506
	MSRV-4D-4	PSA-10 SNUBBER	MS-318	VT3H	19890515
	MSRV-4D-5	STRUT	MS-318	VT3H	19890515
	MS-319	SPRING	MS-318	VT3H	19890515
	MSRV-4D-7PS	RIGID	MS-318	VT3H	19890515
	SLC-4453-68	STRUT	SLC-101	VT3H	19890520
	COUNT =	265			
N/A	JET PUMP SENSING LINES	JP SENSING LINE	RPV-101	VT-1	19890527
	INCORE DRY TUBES	INCORE DRY TUBE	RPV-101	VT-1	19890527
	CORE SPRAY SPARGERS	CORE SPRAY SPG	RPV-101	VT-1	19890527
	STEAM DRYER	STEAM DRYER	RPV-101	VT-1	19890527
	30CSP(1)-1	FLANGE TO PIPE	MISC	VOL	19890612
	COUNT =	5			

TOTAL COUNT = 713

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
HPCS-924N EAST					
PSA-3 SN(2)	3924	19890503	ACC		NO
HY-4237-110					
PSA-1/4 SNUBBER	381	19890501	ACC		NO
LPCS-908N					
PSA-10 SNUBBER	1485	19890506	ACC		NO
MS-1006N TOP					
PSA-3 SN(2)	4440	19890508	ACC		NO
MS-114 SOUTH					
PSA-10 SN(2)	285	19890508	ACC		NO
MS-177 NORTH					
PSA-3 SN(2)	1071	19890502	ACC		NO
MS-2619-12					
PSA-1/4 SNUBBER	6226	19890509	ACC	DELETED	NO
MS-2619-316					
PSA-1/4 SNUBBER	28428	19890502	ACC	DELETED	NO
MS-908N NORTH					
PSA-35 SN(2)	6092	19890503	ACC	DELETED	NO
MS-SC-8					
PSA-35 SNUBBER	4151	19890508	ACC		NO
MS-SD-1					
PSA-100 SNUBBER	609	19890508	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
MSLC-2821-22					
PSA-1 SNUBBER	581	19890430	ACC		NO
MSRV-1B-2					
PSA-10 SNUBBER	13035	19890506	ACC		NO
MSRV-2A-5					
PSA-10 SNUBBER	11846	19890508	ACC		NO
MSRV-2B-4					
PSA-10 SNUBBER	17367	19890508	ACC		NO
MSRV-2C-4					
PSA-10 SNUBBER	9917	19890506	ACC		NO
MSRV-2C-9					
PSA-10 SNUBBER	9954	19890506	ACC		NO
MSRV-3A-2					
PSA-10 SNUBBER	703	19890506	ACC		NO
MSRV-3C-7					
PSA-10 SNUBBER	9897	19890508	ACC		NO
MSRV-4B-5					
PSA-35 SNUBBER	6202	19890509	ACC		NO
MSRV-5C-2					
PSA-10 SNUBBER	4872	19890506	ACC		NO
MSRV-5C-3					
PSA-35 SNUBBER	9263	19890508	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RCIC-100 EAST PSA-1/2 SN(2)	2536*	19890501	ACC		NO
RCIC-100 EAST PSA-1/2 SN(2)	4032	19890503	ACC	2536	NO
RCIC-1C-13 BOTTOM PSA-3 SN(2)	4450	19890506	ACC		NO
RCIC-1C-2 WEST PSA-3 SN(2)	482	19890509	ACC		NO
RCIC-1C-5 PSA-10 SNUBBER	13029	19890506	ACC		NO
RCIC-38 EAST PSA-1 SN(2)	214	19890503	ACC		NO
RCIC-933N PSA-3 SNUBBER	3903	19890502	ACC		NO
RCIC-937N PSA-3 SNUBBER	2571	19890506	ACC		NO
RCIC-970S PSA-1/2 SNUBBER	2528	19890508	ACC		NO
RFW-147 PSA-100 SNUBBER	500	19890509	ACC		NO
RFW-166 TOP PSA-10 SN(2)	687	19890508	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-929N						
PSA-10 SNUBBER		279	19890506	ACC		NO
RHR-1021N	WEST					
PSA-3 SN(2)		3947	19890501	ACC		NO
RHR-1022N	SOUTH					
PSA-35 SN(2)		3008	19890504	ACC		NO
RHR-304	TOP					
PSA-10 SN(2)		15459	19890501	REJ	STRUT	NO
RHR-361						
PSA-3 SNUBBER		2786	19890502	ACC		NO
RHR-362	BOTTOM					
PSA-3 SN(2)		3952	19890502	ACC	STRUT	NO
RHR-381	EAST					
PSA-10 SN(2)		695	19890506	ACC		NO
RHR-414	SOUTH					
PSA-3 SN(2)		2586	19890503	ACC		NO
RHR-448						
PSA-1/2 SNUBBER		4019	19890501	ACC		NO
RHR-492	NORTH					
PSA-3 SN(2)		3942	19890502	ACC		NO
RHR-548	EAST					
PSA-3 SN(2)		630	19890502	ACC		NO

TABLE III
SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.			TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RHR-942N	NORTH					
PSA-1 SN(2)		371	19890503	ACC		NO
RHR-948N	TOP					
PSA-3 SN(2)		2789	19890501	ACC		NO
RHR-954N	EAST					
PSA-1 SN(2)		126	19890501	ACC		NO
RHR-962N						
PSA-10 SNUBBER		123	19890503	ACC		NO
RHR-SA-50						
PSA-35 SNUBBER		6095	19890508	ACC		NO
RHR-SA-51						
PSA-35 SNUBBER		6162	19890509	ACC		NO
RHR-SA-56						
PSA-10 SNUBBER		707	19890506	ACC		NC
RRC-1C-900N	BOTTOM					
PSA-1 SN(2)		617	19890508	ACC		NO
RRC-SA-13						
PSA-35 SNUBBER		4193	19890509	ACC		NO
RRC-SB-6						
PSA-100 SNUBBER		621	19890508	ACC		NO
SW-124	SOUTH					
PSA-35 SN(2)		7036	19890504	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
SW-29 SOUTH EA PSA-10 SN(4) 4861	19890501	ACC		NO

TOTAL COUNT = 56

*RCIC-100 (S/N=2536)
This snubber was not part of sample population.
It was tested prior to being installed as a replacement.

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
RHR-V-53A	Anchor/Darling Valve Co.	E6330-2-2	N/A	N/A
MS-V-28A	Rockwell Mfg. Co.	JU-53	N/A	78
MS-V-28D	Rockwell Mfg. Co.	JT-78	N/A	71
MS-V-22A	Rockwell Mfg. Co.	JV-2	N/A	81
MS-V-22D	Rockwell Mfg. Co.	JT-41	N/A	68
RCIC-V-66	Anchor/Darling Valve Co.	IN321	N/A	N/A
RCIC-V-65	Velan Engineering Co.	0334	N/A	N/A
RCIC-V-8	Velan Engineering Co.	77	N/A	N/A
RHR-V-23	Anchor/Darling Valve Co.	IN-104	N/A	N/A
RHR-V-41A	Velan Engineering Co.	0064	N/A	N/A
RHR-HX-1A	Delta Southern Co.	35009-74-1	N/A	3489
Lg Bore Pipe	Bechtel	(1)	N/A	N/A
Notes: (1)	The piping examined is included on Page 4 through 25 of this			
	NIS-1 form.			

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

FORM NIS-1

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 indications were found using dye penetrant, magnetic particle and ultrasonic methods. Code category B-P leakage test found 2 leaking flange joints. RPV interior (B-N-1) visual examination found one of the three surveillance specimen holders detached from the rest of the holder. One snubber failed testing. A number of CRD cap screws were found with pitting corrosion.

12. Abstract of Corrective Measures Recommended and Taken:

The leaks were on the CRD flange joints. They were evaluated and found acceptable. The detached specimen holder was recovered. Being a spare it was not reinstalled prior to startup. The failed snubber was deleted and replaced with a rigid strut. The CRD cap screws with pitting corrosion were replaced even though the evaluation showed they were acceptable for continued operation.

ANI 41

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

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-D	N4-210-IR	FW NZ-IR @ 210	B3.100	VOL	RPV-101
	N4-210-NB	FW NZ BORE @210	B3.100	VOL	RPV-101
	N8	HD VN NZ-HD TOP	B3.90	VOL	RPV-102
	N8-IR	HD VN NZ-HD IR	B3.100	VOL	RPV-102
	N18	SPARE NZ-TOP HD	B3.90	VOL	RPV-102
	N18-IR	SPARE NZ-TOP IR	B3.100	VOL	RPV-102
B-F	12RFW(1)BD-9	SE EXT-SE STUB	B5.10	VOL	RFW-102
	12RFW(1)BD-9	SE EXT-SE STUB	B5.10	SUR	RFW-102
	12RFW(1)BD-10	SE STUB TO SE	B5.10	VOL	RFW-102
	12RFW(1)BD-10	SE STUB TO SE	B5.10	SUR	RFW-102
	12RFW(1)BD-11	SE TO N4	B5.10	VOL	RFW-102
	12RFW(1)BD-11	SE TO N4	B5.10	SUR	RFW-102
B-G-1	RPV STUD 35-1-3A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-3A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-10A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-10A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-17A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-17A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-24A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-24A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-31A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-31A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-38A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-38A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-45A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-45A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-52A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-52A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-59A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-59A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-66A	RPV STUD	B6.20	VOL	RPV-101

ANI 41

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 35-1-66A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-73A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-73A	RPV STUD	B6.30	SUR	RPV-101
	RPV NUT 36-1-3A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-3A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-10A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-10A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-17A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-17A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-24A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-24A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-31A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-31A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-38A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-38A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-45A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-45A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-52A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-52A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-59A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-59A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-66A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-66A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-73A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-73A	RPV NUT	B6.10	SUR	RPV-101
	RPV WASHERS	RPV WASHER*	B6.50	VT-1	RPV-101
B-G-2	CRD HOUSING BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-59 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 22-59 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 42-59 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 38-55 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 46-55 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102

*Washers: 36-1-3A; 36-1-10A; 36-1-17A; 36-1-24A; 36-1-31A; 36-1-38A; 36-1-45A; 36-[illegible]2A; 36-1-59A; 36-1-66A and 36-1-73A

ANI 41

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.
IB-G-2	CRD HOUSING 18-51 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 30-51 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 06-47 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 14-47 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 22-47 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 54-47 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 02-43 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 34-43 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 50-43 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 22-39 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 26-39 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 54-39 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 02-35 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-35 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 30-35 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 58-35 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-31 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 30-31 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 58-23 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 22-19 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 30-19 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 46-19 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 14-15 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 22-15 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 38-15 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 50-15 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 10-11 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-11 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 26-11 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-07 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 30-07 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 38-07 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 30-03 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102

ANI 41

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 38-03 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	RCIC-V-8-BLT	VALVE BOLTING	B7.70	VT-1	RCIC-101
	HPCS-V-51-BLT	VALVE BOLTING	B7.70	VT-1	HPCS-101
	LPCS-V-6-BLT	VALVE BOLTING	B7.70	VT-1	LPCS-101
	RHR-V-41B-BLT	VALVE BOLTING	B7.70	VT-1	RHR-102
	RHR-V-111B-BLT	VALVE BOLTING	B7.70	VT-1	RHR-102
	RHR-V-53A-BLT	VALVE BOLTING	B7.70	VT-1	RHR-105
	8MSR-4A-2BD	FLANGE BOLTING	B7.50	VT-1	MS-101
	MS-RV-4A-BLT	VALVE BOLTING	B7.70	VT-1	MS-101
	8MSR-1B-2BD	FLANGE BOLTING	B7.50	VT-1	MS-102
	RWCU-V-40-BLT	VALVE BOLTING	B7.70	VT-1	RFW-103
	RRC-V-23A-BLT	VALVE BOLTING	B7.70	VT-1	RRC-101
	RRC-V-67B-BLT	VALVE BOLTING	B7.70	VT-1	RRC-102
	RWCU-V-101-BLT	VALVE BOLTING	B7.70	VT-1	RWCU-101
	RWCU-V-106-BLT	VALVE BOLTING	B7.70	VT-1	RWCU-101
B-J	6SPARE-1	SPARE NZ-FLANGE	B9.11	VOL	RPV-102
	6SPARE-1	SPARE NZ-FLANGE	B9.11	SUR	RPV-102
	10RCIC(12)-5	VALVE TO PIPE	B9.11	VOL	RCIC-101
	10RCIC(12)-5	VALVE TO PIPE	B9.11	SUR	RCIC-101
	10RCIC(12)-5A	PIPE TO PIPE	B9.11	VOL	RCIC-101
	10RCIC(12)-5A	PIPE TO PIPE	B9.11	SUR	RCIC-101
	10RCIC(12)-6	PIPE TO EL	B9.11	VOL	RCIC-101
	10RCIC(12)-6	PIPE TO EL	B9.11	SUR	RCIC-101
	10RCIC(12)-7	EL TO PIPE	B9.11	VOL	RCIC-101
	10RCIC(12)-7	EL TO PIPE	B9.11	SUR	RCIC-101
	12LPCS(1)-8	PIPE TO EL	B9.11	VOL	LPCS-101
	12LPCS(1)-8	PIPE TO EL	B9.11	SUR	LPCS-101
	12LPCS(1)-9	EL TO PIPE	B9.11	VOL	LPCS-101
	12LPCS(1)-9	EL TO PIPE	B9.11	SUR	LPCS-101
	12LPCS(1)-10	PIPE TO PIPE	B9.11	VOL	LPCS-101
	12LPCS(1)-10	PIPE TO PIPE	B9.11	SUR	LPCS-101
	12LPCS(1)-11	PIPE TO EL	B9.11	VOL	LPCS-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	12LPCS(1)-11	PIPE TO EL	B9.11	SUR	LPCS-101
	12LPCS(1)-12	EL TO PIPE	B9.11	VOL	LPCS-101
	12LPCS(1)-12	EL TO PIPE	B9.11	SUR	LPCS-101
	12LPCS(1)-13	PIPE TO EL	B9.11	VOL	LPCS-101
	12LPCS(1)-13	PIPE TO EL	B9.11	SUR	LPCS-101
	12LPCS(1)-14	EL TO PIPE	B9.11	VOL	LPCS-101
	12LPCS(1)-14	EL TO PIPE	B9.11	SUR	LPCS-101
	12LPCS(1)-17	PIPE TO EL	B9.11	VOL	LPCS-101
	12LPCS(1)-17	PIPE TO EL	B9.11	SUR	LPCS-101
	12LPCS(1)-18	EL TO PIPE	B9.11	VOL	LPCS-101
	12LPCS(1)-18	EL TO PIPE	B9.11	SUR	LPCS-101
	12LPCS(1)-18/4LPCS(1)-4	WOL TO PIPE	B9.32	SUR	LPCS-101
	4LPCS(1)-2	PIPE TO WOL	B9.11	VOL	LPCS-101
	4LPCS(1)-2	PIPE TO WOL	B9.11	SUR	LPCS-101
	12LPCS(1)-19	PIPE TO VLV	B9.11	VOL	LPCS-101
	12LPCS(1)-19	PIPE TO VLV	B9.11	SUR	LPCS-101
	12LPCS(1)-20	VLV TO PIPE	B9.11	VOL	LPCS-101
	12LPCS(1)-20	VLV TO PIPE	B9.11	SUR	LPCS-101
	14LPCI(1)A-11	PIPE TO EL	B9.11	VOL	RHR-101
	14LPCI(1)A-11	PIPE TO EL	B9.11	SUR	RHR-101
	14LPCI(1)A-12	EL TO PIPE	B9.11	VOL	RHR-101
	14LPCI(1)A-12	EL TO PIPE	B9.11	SUR	RHR-101
	14LPCI(1)A-13	PIPE TO VLV	B9.11	VOL	RHR-101
	14LPCI(1)A-13	PIPE TO VLV	B9.11	SUR	RHR-101
	14LPCI(1)A-14	VLV TO PIPE	B9.11	VOL	RHR-101
	14LPCI(1)A-14	VLV TO PIPE	B9.11	SUR	RHR-101
	14LPCI(1)B-18	EL TO PIPE	B9.11	VOL	RHR-102
	14LPCI(1)B-18	EL TO PIPE	B9.11	SUR	RHR-102
	14LPCI(1)B-19	PIPE TO EL	B9.11	VOL	RHR-102
	14LPCI(1)B-19	PIPE TO EL	B9.11	SUR	RHR-102
	14LPCI(1)B-20	EL TO PIPE	B9.11	VOL	RHR-102
	14LPCI(1)B-20	EL TO PIPE	B9.11	SUR	RHR-102
	14LPCI(1)B-21	PIPE TO REDUCER	B9.11	VOL	RHR-102

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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	14LPCI(1)B-21	PIPE TO REDUCER	B9.11	SUR	RHR-102
	20RHR(2)-14	PIPE TO EL	B9.11	VOL	RHR-104
	20RHR(2)-14	PIPE TO EL	B9.11	SUR	RHR-104
	20RHR(2)-15	EL TO PIPE	B9.11	VOL	RHR-104
	20RHR(2)-15	EL TO PIPE	B9.11	SUR	RHR-104
	20RHR(2)-16	PIPE TO EL	B9.11	VOL	RHR-104
	20RHR(2)-16	PIPE TO EL	B9.11	SUR	RHR-104
	20RHR(2)-17	EL TO PIPE	B9.11	VOL	RHR-104
	20RHR(2)-17	EL TO PIPE	B9.11	SUR	RHR-104
	20RHR(2)-18	PIPE TO VALVE	B9.11	VOL	RHR-104
	20RHR(2)-18	PIPE TO VALVE	B9.11	SUR	RHR-104
	12RHR(1)A-1D	VALVE TO PIPE	B9.11	VOL	RHR-105
	12RHR(1)A-1D	VALVE TO PIPE	B9.11	SUR	RHR-105
	26MS(1)A-6LDI	EL SEAM	B9.12	VOL	MS-101
	26MS(1)A-6LDI	EL SEAM	B9.12	SUR	MS-101
	26MS(1)A-6LDO	EL SEAM	B9.12	VOL	MS-101
	26MS(1)A-6LDO	EL SEAM	B9.12	SUR	MS-101
	MS-V-22A/2MS(9)-4	DRAIN CONN	B9.32	SUR	MS-101
	26MS(1)B-5/10RCIC(12)-4	PIPE TO SWL	B9.31	VOL	MS-102
	26MS(1)B-5/10RCIC(12)-4	PIPE TO SWL	B9.31	SUR	MS-102
	26MS(1)B-9/8MSR-1B	PIPE TO SWL	B9.31	VOL	MS-102
	26MS(1)B-9/8MSR-1B	PIPE TO SWL	B9.31	SUR	MS-102
	8MSR-1B1	SWL TO PIPE	B9.11	VOL	MS-102
	8MSR-1B1	SWL TO PIPE	B9.11	SUR	MS-102
	26MS(1)C-4LUI	EL SEAM	B9.12	VOL	MS-103
	26MS(1)C-4LUI	EL SEAM	B9.12	SUR	MS-103
	26MS(1)C-4LUO	EL SEAM	B9.12	VOL	MS-103
	26MS(1)C-4LUO	EL SEAM	B9.12	SUR	MS-103
	26MS(1)C-4	EL TO PIPE	B9.11	VOL	MS-103
	26MS(1)C-4	EL TO PIPE	B9.11	SUR	MS-103
	12RFW(1)AC-1	TEE TO PIPE	B9.11	VOL	RFW-101
	12RFW(1)AC-1	TEE TO PIPE	B9.11	SUR	RFW-101
	12RFW(1)AC-2	PIPE TO EL	B9.11	VOL	RFW-101

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

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J	12RFW(1)AC-2	PIPE TO EL	B9.11	SUR	RFW-101
	12RFW(1)AC-5	EL TO PIPE	B9.11	VOL	RFW-101
	12RFW(1)AC-5	EL TO PIPE	B9.11	SUR	RFW-101
	24RFW(1)B-4	PENE TO VALVE	B9.11	VOL	RFW-102
	24RFW(1)B-4	PENE TO VALVE	B9.11	SUR	RFW-102
	24RFW(1)B-8	PIPE TO VALVE	B9.11	VOL	RFW-102
	24RFW(1)B-8	PIPE TO VALVE	B9.11	SUR	RFW-102
	24RFW(1)B-9	VALVE TO PIPE	B9.11	VOL	RFW-102
	24RFW(1)B-9	VALVE TO PIPE	B9.11	SUR	RFW-102
	12RFW(1)BE-1	TEE TO PIPE	B9.11	VOL	RFW-102
	12RFW(1)BE-1	TEE TO PIPE	B9.11	SUR	RFW-102
	12RFW(1)BE-3	EL TO PIPE	B9.11	VOL	RFW-102
	12RFW(1)BE-3	EL TO PIPE	B9.11	SUR	RFW-102
	12RFW(1)BE-4	PIPE TO EL	B9.11	VOL	RFW-102
	12RFW(1)BE-4	PIPE TO EL	B9.11	SUR	RFW-102
	12RFW(1)BE-5	EL TO PIPE	B9.11	VOL	RFW-102
	12RFW(1)BE-5	EL TO PIPE	B9.11	SUR	RFW-102
	12RFW(1)BE-6	PIPE TO EL	B9.11	VOL	RFW-102
	12RFW(1)BE-6	PIPE TO EL	B9.11	SUR	RFW-102
	12RFW(1)BE-7	EL TO PIPE	B9.11	VOL	RFW-102
	12RFW(1)BE-7	EL TO PIPE	B9.11	SUR	RFW-102
	24RRC(2)A-10/4RRC(8)-4S	PIPE TO SWL	B9.32	VOL	RRC-101
	24RRC(2)A-10/4RRC(8)-4S	PIPE TO SWL	B9.31	SUR	RRC-101
	4RRC(8)2A-1	SWL TO PIPE	B9.11	VOL	RRC-101
	4RRC(8)2A-1	SWL TO PIPE	B9.11	SUR	RRC-101
	4RRC(8)2A-2	PIPE TO FLANGE	B9.11	VOL	RRC-101
	4RRC(8)2A-2	PIPE TO FLANGE	B9.11	SUR	RRC-101
	24RRC(2)A-10/4RRC(4)-4S	PIPE TO SWL	B9.32	VOL	RRC-101
	24RRC(2)A-10/4RRC(4)-4S	PIPE TO SWL	B9.31	SUR	RRC-101
	24RRC(1)A-13/8CAP	PIPE TO SWL	B9.31	VOL	RRC-101
	24RRC(1)A-13/8CAP	PIPE TO SWL	B9.31	SUR	RRC-101
	24RRC(1)A-13/8CAP-1	SWL TO PIPE	B9.31	VOL	RRC-101
	24RRC(1)A-13/8CAP-1	SWL TO PIPE	B9.31	SUR	RRC-101

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

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J	4RRC(8)1A-1	SWL TO PIPE	B9.11	VOL	RRC-101
	4RRC(8)1A-1	SWL TO PIPE	B9.11	SUR	RRC-101
	4RRC(8)1A-2	PIPE TO FLANGE	B9.11	VOL	RRC-101
	4RRC(8)1A-2	PIPE TO FLANGE	B9.11	SUR	RRC-101
	4RRC(51)-5A	PIPE TO PIPE	B9.11	VOL	RRC-104
	4RRC(51)-5A	PIPE TO PIPE	B9.11	SUR	RRC-104
	4RRC(51)-5B	PIPE TO PIPE	B9.11	VOL	RRC-104
	4RRC(51)-5B	PIPE TO PIPE	B9.11	SUR	RRC-104
	12RRC(7)A-3LD	PIPE SEAM	B9.12	SUR	RRC-106
	12RRC(7)A-4LU	PIPE SEAM	B9.12	VOL	RRC-106
	12RRC(7)A-4LU	PIPE SEAM	B9.12	SUR	RRC-106
	12RRC(7)A-4	PIPE TO EL	B9.11	VOL	RRC-106
	12RRC(7)A-4	PIPE TO EL	B9.11	SUR	RRC-106
	12RRC(7)A-4LDI	EL SEAM	B9.12	VOL	RRC-106
	12RRC(7)A-4LDI	EL SEAM	B9.12	SUR	RRC-106
	12RRC(7)A-4LDO	EL SEAM	B9.12	VOL	RRC-106
	12RRC(7)A-4LDO	EL SEAM	B9.12	SUR	RRC-106
	12RRC(7)A-5LUI	EL SEAM	B9.12	VOL	RRC-106
	12RRC(7)A-5LUI	EL SEAM	B9.12	SUR	RRC-106
	12RRC(7)A-5LUO	EL SEAM	B9.12	VOL	RRC-106
	12RRC(7)A-5LUO	EL SEAM	B9.12	SUR	RRC-106
	12RRC(7)A-5	EL TO PIPE	B9.11	VOL	RRC-106
	12RRC(7)A-5	EL TO PIPE	B9.11	SUR	RRC-106
	12RRC(7)A-5LD	PIPE SEAM	B9.12	VOL	RRC-106
	12RRC(7)A-5LD	PIPE SEAM	B9.12	SUR	RRC-106
	12RRC(7)A-6LU	PIPE SEAM	B9.12	VOL	RRC-106
	12RRC(7)A-6LU	PIPE SEAM	B9.12	SUR	RRC-106
	12RRC(7)A-6	PIPE TO SWL	B9.11	VOL	RRC-106
	12RRC(7)A-6	PIPE TO SWL	B9.11	SUR	RRC-106
	4RRC(4)A-2	PIPE TO TEE	B9.11	VOL	RRC-108
	4RRC(4)A-6	PIPE TO EL	B9.11	VOL	RRC-108
	4RRC(4)A-6	PIPE TO EL	B9.11	SUR	RRC-108
	4RRC(4)A-7	EL TO PIPE	B9.11	VOL	RRC-108

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

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J	4RRC(4)A-7	EL TO PIPE	B9.11	SUR	RRC-108
B-K-1	RCIC-1C-13(W)	8 WELDED LUGS	B10.10	SUR	RCIC-101
	HPCS-910N(W)	4 WELDED LUGS	B10.10	SUR	HPCS-101
	HPCS-64(W)	4 WELDED LUGS	B10.10	SUR	HPCS-101
	RHR-SA-39(W)	8 WELDED LUGS	B10.10	SUR	RHR-105
	MS-HB-1(W)	4 WELDED LUGS	B10.10	SUR	MS-102
	RFW-157(W)	4 WELDED LUGS	B10.10	SUR	RFW-101
	RRC-HA-1(W)	4 WELDED LUGS	B10.10	SUR	RRC-101
	RWCU-1C-17(W)	8 WELDED LUGS	B10.10	SUR	RWCU-101
B-M-2	RHR-V-23-BDY	VALVE BODY	B12.40	VT-3	RCIC-102
	RCIC-V-65-BDY	VALVE BODY	B12.40	VT-3	RCIC-102
	RCIC-V-66-BDY	VALVE BODY	B12.40	VT-3	RCIC-102
	RHR-V-41A-BDY	VALVE BODY	B12.40	VT-3	RHR-101
	RHR-V-53A-BDY	VALVE BODY	B12.40	VT-3	RHR-105
	MS-V-22A-BDY	VALVE BODY	B12.40	VT-3	MS-101
	MS-V-28A-BDY	VALVE BODY	B12.40	VT-3	MS-101
	MS-V-22D-BDY	VALVE BODY	B12.40	VT-3	MS-104
	MS-V-28D-BDY	VALVE BODY	B12.40	VT-3	MS-104
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
	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

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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-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-A	AC-4	SHEL/HD CIR WLD	C1.10	VOL	RHR-214
C-B	AN-4	OUT NZ/SHEL WLD	C2.20	VOL	RHR-214
	AN-4	OUT NZ/SHEL WLD	C2.20	SUR	RHR-214
C-C	RHR-158(W)	8 WELDED LUGS	C3.40	SUR	RHR-201
	RHR-1001N(W)	8 WELDED LUGS	C3.40	SUR	RHR-201
	RHR-362(W)	8 WELDED LUGS	C3.40	SUR	RHR-201

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

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
C-C	RHR-597(W)	8 WELDED LUGS	C3.40	SUR	RHR-204
	RHR-53(W)	4 WELDED LUGS	C3.40	SUR	RHR-207
	RHR-465(W)	8 WELDED LUGS	C3.40	SUR	RHR-207
	RHR-479(W)	4 WELDED LUGS	C3.40	SUR	RHR-207
	RHR-486(W)	4 WELDED LUGS	C3.40	SUR	RHR-207
	MS-117(W)	1 WELDED SADDLE	C3.40	SUR	MS-201
	MS-173(W)	2 WELDED LUGS	C3.40	SUR	MS-202
	MS-998N(W)	8 WELDED LUGS	C3.40	SUR	MS-202
	MS-1003N(W)	1 WELDED SADDLE	C3.40	SUR	MS-203
	MS-39(W)	1 WELDED SADDLE	C3.40	SUR	MS-203
	MS-30(W)	1 WELDED SADDLE	C3.40	SUR	MS-203
	MS-26(W)	8 WELDED LUGS	C3.40	SUR	MS-203
	MS-1010N(W)	8 WELDED LUGS	C3.40	SUR	MS-204
	MS-61(W)	1 WELDED SADDLE	C3.40	SUR	MS-204
	MS-59(W)	1 WELDED SADDLE	C3.40	SUR	MS-204
	MS-51(W)	4 WELDED LUGS	C3.40	SUR	MS-204
	MS-181(W)	3 WELDED SADDLE	C3.40	SUR	MS-205
	MS-182(W)	1 WELDED SADDLE	C3.40	SUR	MS-205
C-F-2	14RHR(1)A-18	PIPE TO EL	C5.51	SUR	RHR-201
	14RHR(1)A-18	PIPE TO EL	C5.51	VOL	RHR-201
	14RHR(1)A-21	EL TO PIPE	C5.51	SUR	RHR-201
	14RHR(1)A-21	EL TO PIPE	C5.51	VOL	RHR-201
	12RHR(1)A-1B	PIPE TO FLANGE	C5.51	VOL	RHR-201
	12RHR(1)A-1B	PIPE TO FLANGE	C5.51	SUR	RHR-201
	12RHR(1)A-1C	FLANGE TO PIPE	C5.51	VOL	RHR-201
	12RHR(1)A-1C	FLANGE TO PIPE	C5.51	SUR	RHR-201
	12RHR(1)A-4B	PIPE TO VALVE	C5.51	SUR	RHR-201
	12RHR(1)A-4B	PIPE TO VALVE	C5.51	VOL	RHR-201
	18RHR(4)A-8	PIPE TO EL	C5.51	SUR	RHR-203
	18RHR(4)A-8	PIPE TO EL	C5.51	VOL	RHR-203
	20RHR(2)A-7	EL TO PIPE	C5.51	SUR	RHR-205
	20RHR(2)A-7	EL TO PIPE	C5.51	VOL	RHR-205

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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	24RHR(3)-17	FLANGE TO ELL	C5.51	VOL	RHR-211
	24RHR(3)-17	FLANGE TO ELL	C5.51	SUR	RHR-211
D-A	MSRV-4A-2(W)	WELDED ATTACH	D1.30	VT-3	MS-304
	MSRV-4A-3(W)	WELDED ATTACH	D1.30	VT-3	MS-304
	MSRV-4A-1(W)	WELDED ATTACH	D1.30	VT-3	MS-304
	MSRV-4A-4(W)	WELDED ATTACH	D1.30	VT-3	MS-304
	MSRV-4A-5(W)	WELDED ATTACH	D1.30	VT-3	MS-304
	MS-277(W)	WELDED ATTACH	D1.40	VT-3	MS-304
	MS-278(W)	WELDED ATTACH	D1.40	VT-3	MS-304
	MSRV-4A-8(W)	WELDED ATTACH	D1.30	VT-3	MS-304
	MSRV-4A-10(W)	WELDED ATTACH	D1.30	VT-3	MS-304
	MS-279(W)	WELDED ATTACH	D1.40	VT-3	MS-304
	MSRV-2B-3(W)	WELDED ATTACH	D1.30	VT-3	MS-306
	MSRV-2B-1(W)	WELDED ATTACH	D1.30	VT-3	MS-306
	MSRV-2B-2(W)	WELDED ATTACH	D1.30	VT-3	MS-306
	MSRV-2B-6(W)	WELDED ATTACH	D1.30	VT-3	MS-306
	MSRV-2B-5(W)	WELDED ATTACH	D1.30	VT-3	MS-306
	MS-322(W)	WELDED ATTACH	D1.40	VT-3	MS-306
	MSRV-2B-7(W)	WELDED ATTACH	D1.30	VT-3	MS-306
	MSRV-2B-8(W)	WELDED ATTACH	D1.30	VT-3	MS-306
	MS-323(W)	WELDED ATTACH	D1.40	VT-3	MS-306
	MS-344(W)	WELDED ATTACH	D1.40	VT-3	MS-306
	MSRV-5B-2(W)	WELDED ATTACH	D1.30	VT-3	MS-309
	MSRV-5B-1(W)	WELDED ATTACH	D1.30	VT-3	MS-309
	MSRV-5B-5(W)	WELDED ATTACH	D1.30	VT-3	MS-309
	MSRV-5B-4(W)	WELDED ATTACH	D1.30	VT-3	MS-309
	MS-345(W)	WELDED ATTACH	D1.40	VT-3	MS-309
	MSRV-1C-2(W)	WELDED ATTACH	D1.30	VT-3	MS-310
	MSRV-1C-3(W)	WELDED ATTACH	D1.30	VT-3	MS-310
	MSRV-1C-1(W)	WELDED ATTACH	D1.30	VT-3	MS-310
	MS-294(W)	WELDED ATTACH	D1.40	VT-3	MS-310
	MSRV-1C-4(W)	WELDED ATTACH	D1.30	VT-3	MS-310

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-A	MSRV-1C-5(W)	WELDED ATTACH	D1.30	VT-3	MS-310
	MS-295(W)	WELDED ATTACH	D1.40	VT-3	MS-310
	MS-336(W)	WELDED ATTACH	D1.40	VT-3	MS-310
	MSRV-4C-2(W)	WELDED ATTACH	D1.30	VT-3	MS-313
	MSRV-4C-3(W)	WELDED ATTACH	D1.30	VT-3	MS-313
	MSRV-4C-1(W)	WELDED ATTACH	D1.30	VT-3	MS-313
	MS-305(W)	WELDED ATTACH	D1.40	VT-3	MS-313
	MSRV-4C-5(W)	WELDED ATTACH	D1.30	VT-3	MS-313
	MSRV-4C-6(W)	WELDED ATTACH	D1.30	VT-3	MS-313
	MSRV-4C-4(W)	WELDED ATTACH	D1.30	VT-3	MS-313
	MSRV-4C-8(W)	WELDED ATTACH	D1.30	VT-3	MS-313
	MSRV-4C-7(W)	WELDED ATTACH	D1.30	VT-3	MS-313
	MS-306(W)	WELDED ATTACH	D1.40	VT-3	MS-313
	MS-307(W)	WELDED ATTACH	D1.40	VT-3	MS-313
	MS-318(W)	WELDED ATTACH	D1.40	VT-3	MS-318
D-B	SW-124(W)	WELDED ATTACH	D2.30	VT-3	SW-301
	SW-237(W)	WELDED ATTACH	D2.20	VT-3	SW-302
	SW-243(W)	WELDED ATTACH	D2.20	VT-3	SW-302
	SW-155(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-154(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-141(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-136(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-135(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-132(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-230(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-131(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-130(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-129(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-128(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-8(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-9(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-918N(W)	WELDED ATTACH	D2.20	VT-3	SW-303

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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-B	SW-20(W)	WELDED ATTACH	D2.20	VT-3	SW-303
	SW-36(W)	WELDED ATTACH	D2.20	VT-3	SW-305
	SW-35(W)	WELDED ATTACH	D2.20	VT-3	SW-305
	SW-33(W)	WELDED ATTACH	D2.20	VT-3	SW-305
	SW-32(W)	WELDED ATTACH	D2.20	VT-3	SW-305
	SW-31(W)	WELDED ATTACH	D2.20	VT-3	SW-305
	SW-194(W)	WELDED ATTACH	D2.20	VT-3	SW-305
	SW-180(W)	WELDED ATTACH	D2.20	VT-3	SW-307
	SW-87(W)	WELDED ATTACH	D2.20	VT-3	SW-307
	SW-88(W)	WELDED ATTACH	D2.20	VT-3	SW-307
	SW-89(W)	WELDED ATTACH	D2.20	VT-3	SW-307
	SW-282(W)	WELDED ATTACH	D2.20	VT-3	SW-311
	SW-291(W)	WELDED ATTACH	D2.20	VT-3	SW-311
	SW-982N(W)	WELDED ATTACH	D2.20	VT-3	SW-312
	SW-984N(W)	WELDED ATTACH	D2.20	VT-3	SW-313
D-C	FPC-44(W)	WELDED ATTACH	D3.20	VT-3	FPC-301
	FPC-42(W)	WELDED ATTACH	D3.20	VT-3	FPC-301
	FPC-231(W)	WELDED LUG	D3.20	VT-3	FPC-305
IWF	RCIC-1C-15	PSA-3 SN(2)	F-X	VT3H	RCIC-101
	RCIC-1C-5	PSA-10 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-1C-13	PSA-3 SN(2)	F-X	VT3H	RCIC-101
	RCIC-61	SPRING	F-X	VT3H	RCIC-101
	RCIC-66	SPRING	F-X	VT3H	RCIC-101
	RCIC-1C-2	PSA-3 SN(2)	F-X	VT3H	RCIC-101
	RCIC-1C-1	PSA-1 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-1C-3	PSA-1 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-59	SPRING (2)	F-X	VT3H	RCIC-101
	RCIC-1C-14	PSA-1 SNUBBER	F-X	VT3H	RCIC-101
	RCIC-31	SPRING	F-X	VT3H	RCIC-205
	RCIC-13	BOX	F-X	VT3H	RCIC-205
	RCIC-12	BOX	F-X	VT3H	RCIC-205

ANI

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	RCIC-11	BOX	F-X	VT3H	RCIC-205
	RCIC-9	BOX	F-X	VT3H	RCIC-205
	RCIC-10	STRUT	F-X	VT3H	RCIC-205
	RCIC-16	BOX	F-X	VT3H	RCIC-205
	RCIC-17	BOX	F-X	VT3H	RCIC-205
	RCIC-966N	STRUT	F-X	VT3H	RCIC-205
	LPCS-905N	PSA-3 SNUBBER	F-X	VT3H	LPCS-101
	LPCS-906N	SPRING	F-X	VT3H	LPCS-101
	LPCS-64	SPRING	F-X	VT3H	LPCS-101
	LPCS-63	SPRING	F-X	VT3H	LPCS-101
	LPCS-9	SPRING	F-X	VT3H	LPCS-202
	LPCS-46	BOX	F-X	VT3H	LPCS-202
	LPCS-31	BOX	F-X	VT3H	LPCS-202
	RHR-527	SPRING	F-X	VT3H	RHR-101
	RHR-380	PSA-10 SNUBBER	F-X	VT3H	RHR-101
	RHR-381	PSA-10 SN(2)	F-X	VT3H	RHR-101
	RHR-383	PSA-35 SNUBBER	F-X	VT3H	RHR-101
	RHR-529	SPRING	F-X	VT3H	RHR-101
	RHR-158	STRUT	F-X	VT3H	RHR-201
	RHR-160	PSA-3 SNUBBER	F-X	VT3H	RHR-201
	RHR-604	SPRING	F-X	VT3H	RHR-201
	RHR-603	STRUT	F-X	VT3H	RHR-201
	RHR-599	STRUT	F-X	VT3H	RHR-201
	RHR-187	SPRING	F-X	VT3H	RHR-201
	RHR-149	STRUT	F-X	VT3H	RHR-201
	RHR-148	BOX	F-X	VT3H	RHR-201
	RHR-146	SPRING	F-X	VT3H	RHR-201
	RHR-144	SPRING	F-X	VT3H	RHR-201
	RHR-971N	ANCHOR	F-X	VT3H	RHR-201
	RHR-142	PSA-1 SN(2)	F-X	VT3H	RHR-201
	RHR-363	SPRING	F-X	VT3H	RHR-201
	RHR-361	PSA-3 SNUBBER	F-X	VT3H	RHR-201
	RHR-362	STRUT	F-X	VT3H	RHR-201

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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-357	PSA-10 SNUBBER	F-X	VT3H	RHR-201
	RHR-360	SPRING	F-X	VT3H	RHR-201
	RHR-359	PSA-3 SNUBBER	F-X	VT3H	RHR-201
	RHR-358	BOX	F-X	VT3H	RHR-201
	RHR-356	STRUT	F-X	VT3H	RHR-201
	RHR-264	PSA-3 SN(2)	F-X	VT3H	RHR-201
	RHR-266	BOX	F-X	VT3H	RHR-201
	RHR-267	BOX	F-X	VT3H	RHR-201
	RHR-269	PSA-3 SNUBBER	F-X	VT3H	RHR-201
	RHR-280	SPRING	F-X	VT3H	RHR-201
	RHR-268	BOX	F-X	VT3H	RHR-201
	RHR-270	PSA-3 SNUBBER	F-X	VT3H	RHR-201
	RHR-271	PSA-3 SN(2)	F-X	VT3H	RHR-201
	RHR-351	SPRING	F-X	VT3H	RHR-201
	RHR-1012S	PIPE CLAMP	F-X	VT3H	RHR-201
	RHR-1011S	PIPE CLAMP	F-X	VT3H	RHR-201
	RHR-353	STRUT	F-X	VT3H	RHR-201
	RHR-352	STRUT	F-X	VT3H	RHR-201
	RHR-251	STRUT	F-X	VT3H	RHR-202
	RHR-278	BOX	F-X	VT3H	RHR-203
	RHR-277	PSA-3 SNUBBER	F-X	VT3H	RHR-203
	RHR-279	SPRING	F-X	VT3H	RHR-203
	RHR-276	PSA-3 SN(2)	F-X	VT3H	RHR-203
	RHR-274	PSA-3 SNUBBER	F-X	VT3H	RHR-203
	RHR-275	PSA-3 SNUBBER	F-X	VT3H	RHR-203
	RHR-369	STRUT	F-X	VT3H	RHR-203
	RHR-405	PSA-3 SNUBBER	F-X	VT3H	RHR-203
	RHR-408	STRUT	F-X	VT3H	RHR-203
	RHR-974N	PSA-3 SNUBBER	F-X	VT3H	RHR-203
	RHR-597	STRUT	F-X	VT3H	RHR-204
	RHR-58	ANCHOR	F-X	VT3H	RHR-205
	RHR-471	SPRING	F-X	VT3H	RHR-205
	RHR-56	SPRING	F-X	VT3H	RHR-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.
IWF	RHR-119	STRUT	F-X	VT3H	RHR-205
	RHR-120	STRUT	F-X	VT3H	RHR-205
	RHR-917N	SPRING	F-X	VT3H	RHR-205
	RHR-122	STRUT	F-X	VT3H	RHR-206
	RHR-124	STRUT	F-X	VT3H	RHR-206
	RHR-123	BOX	F-X	VT3H	RHR-206
	RHR-125	STRUT	F-X	VT3H	RHR-206
	RHR-126	STRUT	F-X	VT3H	RHR-206
	RHR-127	BOX	F-X	VT3H	RHR-206
	RHR-128	BOX	F-X	VT3H	RHR-206
	RHR-53	SPRING	F-X	VT3H	RHR-207
	RHR-470	STRUT	F-X	VT3H	RHR-207
	RHR-911N	STRUT	F-X	VT3H	RHR-207
	RHR-304	STRUT	F-X	VT3H	RHR-210
	MS-HA-1	SPRING (2)	F-X	VT3H	MS-101
	MS-SA-5	PSA-35 SNUBBER	F-X	VT3H	MS-101
	MS-SB-3	PSA-35 SNUBBER	F-X	VT3H	MS-102
	MS-SB-4	PSA-35 SNUBBER	F-X	VT3H	MS-102
	MS-HB-3	SPRING (2)	F-X	VT3H	MS-102
	MS-SB-1	PSA-100 SNUBBER	F-X	VT3H	MS-102
	MS-SB-2	PSA-100 SNUBBER	F-X	VT3H	MS-102
	MS-2619-14	STRUT	F-X	VT3H	MS-106
	MS-2619-13	PSA-1 SNUBBER	F-X	VT3H	MS-106
	MS-2619-16	STRUT	F-X	VT3H	MS-106
	MS-2619-15	PSA-1 SNUBBER	F-X	VT3H	MS-106
	MS-2619-21	STRUT	F-X	VT3H	MS-106
	MS-2619-210	STRUT	F-X	VT3H	MS-106
	MS-2619-214	STRUT	F-X	VT3H	MS-106
	MS-2619-26	STRUT	F-X	VT3H	MS-106
	MS-2619-312	STRUT	F-X	VT3H	MS-106
	MS-2619-311	STRUT	F-X	VT3H	MS-106
	MS-2619-313	STRUT	F-X	VT3H	MS-106
	MS-2619-314	STRUT	F-X	VT3H	MS-106

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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-2619-319	STRUT	F-X	VT3H	MS-106
	MS-2619-318	STRUT	F-X	VT3H	MS-106
	MS-2619-46	STRUT	F-X	VT3H	MS-106
	MS-2619-42A	STRUT	F-X	VT3H	MS-106
	MS-1010N	STRUT	F-X	VT3H	MS-204
	MS-58	SPRING (2)	F-X	VT3H	MS-204
	MS-57	STRUT	F-X	VT3H	MS-204
	MS-87	SPRING	F-X	VT3H	MS-204
	MS-53	STRUT	F-X	VT3H	MS-204
	MS-54	STRUT	F-X	VT3H	MS-204
	MS-180	ROD	F-X	VT3H	MS-205
	MS-181	ROD	F-X	VT3H	MS-205
	MS-182	ROD	F-X	VT3H	MS-205
	RFW-943N	PSA-1 SN(2)	F-X	VT3H	RFW-103
	RRC-HA-1	SPRING	F-X	VT3H	RRC-101
	RRC-SA-19	PSA-35 SNUBBER	F-X	VT3H	RRC-101
	RRC-SA-20	PSA-35 SNUBBER	F-X	VT3H	RRC-101
	RRC-SA-25	PSA-35 SNUBBER	F-X	VT3H	RRC-101
	RRC-SA-2	PSA-35 SNUBBER	F-X	VT3H	RRC-101
	RRC-SA-1	PSA-35 SNUBBER	F-X	VT3H	RRC-101
	RRC-HB-1	SPRING (2)	F-X	VT3H	RRC-102
	RWCU-1C-4	STRUT	F-X	VT3H	RWCU-101
	RWCU-1C-1	PSA-3 SNUBBER	F-X	VT3H	RWCU-101
	RWCU-927N	PSA-3SNUBBER	F-X	VT3H	RWCU-301
	SW-124	PSA-35 SN(2)	F-X	VT3H	SW-301
	SW-268	BOX	F-X	VT3H	SW-302
	SW-270	BOX	F-X	VT3H	SW-302
	SW-237	BOX	F-X	VT3H	SW-302
	SW-243	RIGID	F-X	VT3H	SW-302
	SW-269	BOX	F-X	VT3H	SW-302
	SW-156	STRUT	F-X	VT3H	SW-303
	SW-155	BOX	F-X	VT3H	SW-303
	SW-154	STRUT	F-X	VT3H	SW-303

ANI 41

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	SW-229	STRUT	F-X	VT3H	SW-303
	SW-228	STRUT	F-X	VT3H	SW-303
	SW-146	STRUT	F-X	VT3H	SW-303
	SW-145	BOX	F-X	VT3H	SW-303
	SW-144	BOX	F-X	VT3H	SW-303
	SW-208	STRUT	F-X	VT3H	SW-303
	SW-143	STRUT	F-X	VT3H	SW-303
	SW-432	STRUT	F-X	VT3H	SW-303
	SW-141	STRUT	F-X	VT3H	SW-303
	SW-136	BOX	F-X	VT3H	SW-303
	SW-135	STRUT	F-X	VT3H	SW-303
	SW-134	STRUT	F-X	VT3H	SW-303
	SW-133	STRUT	F-X	VT3H	SW-303
	SW-132	STRUT	F-X	VT3H	SW-303
	SW-230	BOX	F-X	VT3H	SW-303
	SW-131	BOX	F-X	VT3H	SW-303
	SW-130	RIGID	F-X	VT3H	SW-303
	SW-129	BOX	F-X	VT3H	SW-303
	SW-128	BOX	F-X	VT3H	SW-303
	SW-8	BOX	F-X	VT3H	SW-303
	SW-9	BOX	F-X	VT3H	SW-303
	SW-918N	STRUT	F-X	VT3H	SW-303
	SW-20	BOX	F-X	VT3H	SW-303
	SW-36	RIGID	F-X	VT3H	SW-305
	SW-35	STRUT	F-X	VT3H	SW-305
	SW-33	BOX	F-X	VT3H	SW-305
	SW-32	BOX	F-X	VT3H	SW-305
	SW-31	BOX	F-X	VT3H	SW-305
	SW-30	STRUT	F-X	VT3H	SW-305
	SW-86	STRUT	F-X	VT3H	SW-307
	SW-87	BOX	F-X	VT3H	SW-307
	SW-88	BOX	F-X	VT3H	SW-307
	SW-89	BOX	F-X	VT3H	SW-307

ANI 41

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	SW-927N	BOX	F-X	VT3H	SW-307
	SW-928N	BOX	F-X	VT3H	SW-307
	SW-929N	BOX	F-X	VT3H	SW-307
	SW-282	BOX	F-X	VT3H	SW-311
	SW-291	BOX	F-X	VT3H	SW-311
	SW-982N	ANCHOR	F-X	VT3H	SW-312
	SW-984N	RIGID	F-X	VT3H	SW-313
	FPC-51	BOX	F-X	VT3H	FPC-301
	FPC-52	BOX	F-X	VT3H	FPC-301
	FPC-179	BOX	F-X	VT3H	FPC-302
	FPC-180	BOX	F-X	VT3H	FPC-302
	FPC-181	BOX	F-X	VT3H	FPC-302
	FPC-177	SPRING	F-X	VT3H	FPC-302
	FPC-178	BOX	F-X	VT3H	FPC-302
	FPC-187	BOX	F-X	VT3H	FPC-303
	FPC-190	SPRING	F-X	VT3H	FPC-303
	FPC-194	BOX	F-X	VT3H	FPC-304
	FPC-211	STRUT	F-X	VT3H	FPC-305
	FPC-213	BOX	F-X	VT3H	FPC-305
	FPC-231	BOX	F-X	VT3H	FPC-305
	FPC-159	BOX	F-X	VT3H	FPC-305
	FPC-158	BOX	F-X	VT3H	FPC-305
	FPC-915N	RIGID	F-X	VT3H	FPC-305
	FPC-122	ANCHOR	F-X	VT3H	FPC-306
	FPC-120	BOX	F-X	VT3H	FPC-306
	FPC-119	SPRING	F-X	VT3H	FPC-306
	FPC-118	RIGID	F-X	VT3H	FPC-306
	RCC-909N	STRUT	F-X	VT3H	RCC-301
	RCC-327	STRUT	F-X	VT3H	RCC-302
	RCC-948N	RIGID	F-X	VT3H	RCC-303
	RCC-950N	RIGID	F-X	VT3H	RCC-303
	RCC-951N	RIGID	F-X	VT3H	RCC-303
	RCC-952N	RIGID	F-X	VT3H	RCC-303

ANI 41

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	RCC-947N	RIGID	F-X	VT3H	RCC-303
	RCC-948N	RIGID	F-X	VT3H	RCC-303
	RCC-949N	SPRING	F-X	VT3H	RCC-303
	RCC-940N	RIGID	F-X	VT3H	RCC-304
	RCC-937N	RIGID	F-X	VT3H	RCC-304
	RCC-939N	RIGID	F-X	VT3H	RCC-304
	RCC-939N	RIGID	F-X	VT3H	RCC-304
	RCC-941N	RIGID	F-X	VT3H	RCC-304
	RCC-938N	RIGID	F-X	VT3H	RCC-304
	MS-276	SPRING	F-X	VT3H	MS-304
	MSRV-4A-2	PSA-10 SNUBBER	F-X	VT3H	MS-304
	MSRV-4A-3	PSA-10 SNUBBER	F-X	VT3H	MS-304
	MSRV-4A-1	PSA-10 SNUBBER	F-X	VT3H	MS-304
	MSRV-4A-4	PSA-10 SNUBBER	F-X	VT3H	MS-304
	MSRV-4A-5	PSA-10 SNUBBER	F-X	VT3H	MS-304
	MS-277	SPRING	F-X	VT3H	MS-304
	MS-278	SPRING	F-X	VT3H	MS-304
	MSRV-4A-8	PSA-10 SNUBBER	F-X	VT3H	MS-304
	MSRV-4A-10	PSA-10 SNUBBER	F-X	VT3H	MS-304
	MSRV-4A-9	PSA-10 SNUBBER	F-X	VT3H	MS-304
	MSRV-4A-6	STRUT	F-X	VT3H	MS-304
	MSRV-4A-7	PSA-10 SNUBBER	F-X	VT3H	MS-304
	MS-279	SPRING	F-X	VT3H	MS-304
	MS-333	SPRING	F-X	VT3H	MS-304
	MSRV-4A-8PS	RIGID	F-X	VT3H	MS-304
	MS-320	SPRING	F-X	VT3H	MS-306
	MSRV-2B-3	PSA-35 SNUBBER	F-X	VT3H	MS-306
	MSRV-2B-1	PSA-10 SNUBBER	F-X	VT3H	MS-306
	MSRV-2B-4	PSA-10 SNUBBER	F-X	VT3H	MS-306
	MSRV-2B-2	PSA-10 SNUBBER	F-X	VT3H	MS-306
	MS-321	SPRING	F-X	VT3H	MS-306
	MSRV-2B-6	PSA-10 SNUBBER	F-X	VT3H	MS-306
	MS-322	SPRING	F-X	VT3H	MS-306

ANI 41

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

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
IWF	MSRV-2B-7	PSA-10 SNUBBER	F-X	VT3H	MS-306
	MSRV-2B-8	PSA-10 SNUBBER	F-X	VT3H	MS-306
	MS-323	SPRING	F-X	VT3H	MS-306
	MS-344	SPRING	F-X	VT3H	MS-306
	MSRV-2B-9PS	RIGID	F-X	VT3H	MS-306
	MS-293	SPRING	F-X	VT3H	MS-310
	MSRV-1C-2	PSA-35 SNUBBER	F-X	VT3H	MS-310
	MSRV-1C-3	PSA-35 SNUBBER	F-X	VT3H	MS-310
	MSRV-1C-1	PSA-10 SNUBBER	F-X	VT3H	MS-310
	MSRV-1C-7	PSA-10 SNUBBER	F-X	VT3H	MS-310
	MS-294	SPRING	F-X	VT3H	MS-310
	MSRV-1C-4	PSA-10 SNUBBER	F-X	VT3H	MS-310
	MSRV-1C-5	PSA-10 SNUBBER	F-X	VT3H	MS-310
	MS-295	SPRING	F-X	VT3H	MS-310
	MS-336	SPRING	F-X	VT3H	MS-310
	MSRV-1C-6PS	RIGID	F-X	VT3H	MS-310
	MS-318	SPRING	F-X	VT3H	MS-318
	MSRV-4D-4	PSA-10 SNUBBER	F-X	VT3H	MS-318
	MSRV-4D-5	STRUT	F-X	VT3H	MS-318
	MS-319	SPRING	F-X	VT3H	MS-318
	MSRV-4D-7PS	RIGID	F-X	VT3H	MS-318
	SLC-4453-68	STRUT	F-X	VT3H	SLC-101

APPENDIX B

Note: Outage RF89A is identified as "R4" in this summary

Table Notes:

1. This weld did not receive full coverage from both sides. It did receive full coverage from one side and meets code requirements.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RCIC-201

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RCIC(13)-20							
	VOL	1RIU-027	45				NO RECORDABLE INDICATIONS NO EXAM UPSTREAM DUE TO VALVE SEE NOTE 1
4RCIC(13)-21							
	VOL	1RIU-028		45			ID GEOMETRY
4RCIC(13)-22							
	VOL	1RIU-029		45			ID GEOMETRY

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RCIC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(10)-4
DESCRIPTION: RPV HEAD SPRAY

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-V-23-BDY							
	VT-3	1RHV-023	ACC				NO RECORDABLE INDICATIONS REFERENCE SEC XI PLAN 2-0420 PSI AFTER WORK ON VALVE INTERNAL
RCIC-V-65-BDY							
	VT-3	1RIV-005	ACC				NO RECORDABLE INDICATIONS
RCIC-V-66-BDY							
	VT-3	1RIV-004		ACC			MINOR OXIDATION. TWO PITS/PORES 0.05D X 0.05W X 0.1L. DROPTHROUGH WELD ROOT 6RCIC(1)-41
RCIC-PB-102(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-1C-2	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-1	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-3	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-59	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-14	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-V-8-BLT	VT-1	1RIV-006		ACC			VERY LIGHT CORROSION
RCIC-PB-101(L)	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RCIC-101

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

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
10RCIC(12)-5							
	VOL	1RIU-026		45			ID GEOMETRY
	SUR	1RIP-013	ACC				NO RECORDABLE INDICATIONS
10RCIC(12)-5A							
	VOL	1RIU-030		43			ID GEOMETRY
	SUR	1RIP-014	ACC				NO RECORDABLE INDICATIONS
10RCIC(12)-6							
	VOL	1RIU-026			45		ID GEOMETRY 200% DAC
	SUR	1RIP-013	ACC				NO RECORDABLE INDICATIONS
10RCIC(12)-7							
	VOL	1RIU-026		45			ID GEOMETRY 100% DAC
	SUR	1RIP-013	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-15							
	VT3H	1HV-0121		ACC			MINOR CORROSION ON END BRACKET WALL SIDE. NO MATERIAL LOSS.
RCIC-1C-5							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-13(W)							
	SUR	1RIM-022	ACC				NO RECORDABLE INDICATIONS
RCIC-1C-13							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-61							
	VT3H	1HV-0120		ACC			NO RECORDABLE INDICATIONS
RCIC-66							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-102

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 26-11 BLT							
	VT-1	1RPV-045	ACC				NEW BOLTS NO RECORDABLE INDICATIONS
CRD HOUSING 18-07 BLT							
	VT-1	1RPV-033		ACC			MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 30-07 BLT							
	VT-1	1RPV-051		ACC			VERY MINOR CORRSION ON SOME BOLTS. NO MATERIAL LOSS
CRD HOUSING 38-07 BLT							
	VT-1	1RPV-059		ACC			MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 30-03 BLT							
	VT-1	1RPV-058		ACC			MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 38-03 BLT							
	VT-1	1RPV-057		ACC			MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
RPV-PB-102(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-102

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 14-15 BLT							
	VT-1	1RPV-031		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 22-15 BLT							
	VT-1	1RPV-053		ACC			VERY MINOR SURFACE CORROSION ON 1 USED BOLT. OTHER 7 BOLTS WERE NEW
		1RPV-035		ACC			MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 38-15 BLT							
	VT-1	1RPV-052		ACC			VERY MINOR CORRSION ON SOME BOLTS. NO MATERIAL LOSS
CRD HOUSING 50-15 BLT							
	VT-1	1RPV-063		ACC			EXAM OF 4 BOLTS ONLY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
		1RPV-076	ACC				EXAM OF 4 BOLTS ONLY NEW BOLTS
CRD HOUSING 10-11 BLT							
	VT-1	1RPV-032		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
		1RPV-036		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS THESE BOLTS REPLACE BOLTS ON REPORT 1RPV-032
CRD HOUSING 18-11 BLT							
	VT-1	1RPV-034		ACC			MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-102

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 58-35 BLT							
	VT-1	1RPV-066		ACC			EXAM OF 4 BOLTS ONLY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
		1RPV-077	ACC				EXAM OF 4 BOLTS ONLY NEW BOLTS
CRD HOUSING 18-31 BLT							
	VT-1	1RPV-030		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 30-31 BLT							
	VT-1	1RPV-049	ACC				NEW BOLTS NO RECORDABLE INDICATIONS
CRD HOUSING 58-23 BLT							
	VT-1	1RPV-065		ACC			EXAM ON 4 BOLTS ONLY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
		1RPV-080	ACC				EXAM ON 4 BOLTS ONLY NEW BOLTS
CRD HOUSING 22-19 BLT							
	VT-1	1RPV-037		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 30-19 BLT							
	VT-1	1RPV-054		ACC			VERY MINOR CORROSION ON SOME BOLTS
CRD HOUSING 46-19 BLT							
	VT-1	1RPV-070		ACC			MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-102

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 50-43 BLT							
	VT-1	1RPV-068		ACC			EXAM ON 4 BOLTS ONLY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
		1RPV-074	ACC				EXAM ON 4 NEW BOLTS ONLY NO RECORDABLE INDICATIONS
CRD HOUSING 22-39 BLT							
	VT-1	1RPV-046	ACC				NEW BOLTS NO RECORDABLE INDICATIONS
CRD HOUSING 26-39 BLT							
	VT-1	1RPV-044		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 54-39 BLT							
	VT-1	1RPV-067		ACC			EXAM OF 4 BOLTS ONLY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
		1RPV-075	ACC				EXAM OF 4 BOLTS ONLY NEW BOLTS
CRD HOUSING 02-35 BLT							
	VT-1	1RPV-029		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 18-35 BLT							
	VT-1	1RPV-056	ACC				NEW BOLTS NO RECORDABLE INDICATIONS
CRD HOUSING 30-35 BLT							
	VT-1	1RPV-043		ACC			2 NEW BOLTS 6 USED BOLTS VERY MINOR CORROSION AND TARNISH SPOTS ON SOME

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-102

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 30-51 BLT							
	VT-1	1RPV-040		ACC			VERY MINOR CORROSION AND TARNISH ON SOME BOLTS
CRD HOUSING 06-47 BLT							
	VT-1	1RPV-028		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 14-47 BLT							
	VT-1	1RPV-027		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 22-47 BLT							
	VT-1	1RPV-039		ACC			MINOR CORROSION AND TARNISH ON SOME BOLTS
CRD HOUSING 54-47 BLT							
	VT-1	1RPV-064		ACC			EXAM OF 4 BOLTS ONLY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
		1RPV-078	ACC				EXAM OF 4 BOLTS ONLY NEW BOLTS
CRD HOUSING 02-43 BLT							
	VT-1	1RPV-055	ACC				NEW BOLTS NO RECORDABLE INDICATIONS
CRD HOUSING 34-43 BLT							
	VT-1	1RPV-062		ACC			EXAM OF 4 BOLTS ONLY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
		1RPV-071	ACC				8 NEW BOLTS FOR THIS CRD NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-102

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
CRD HOUSING 18-59 BLT							
	VT-1	1RPV-042		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 22-59 BLT							
	VT-1	1RPV-041		ACC			VERY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 42-59 BLT							
	VT-1	1RPV-060		ACC			MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS EXAM ON 4 BOLTS ONLY
		1RPV-073	ACC				EXAM OF 4 NEW BOLTS ONLY NO RECORDABLE INDICATIONS
CRD HOUSING 38-55 BLT							
	VT-1	1RPV-061		ACC			EXAM ON 4 BOLTS ONLY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
		1RPV-079	ACC				EXAM ON 4 BOLTS ONLY NEW BOLTS
CRD HOUSING 46-55 BLT							
	VT-1	1RPV-072	ACC				EXAM OF 4 NEW BOLTS ONLY NO RECORDABLE INDICATIONS
		1RPV-069		ACC			EXAM OF 4 BOLTS ONLY MINOR CORROSION AND TARNISH SPOTS ON SOME BOLTS
CRD HOUSING 18-51 BLT							
	VT-1	1RPV-038		ACC			MINOR CORROSION AND TARNISH ON SOME BOLTS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-102

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

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
N8							
	VOL	1RPU-045		0,45,60			50-55%DAC GEOMETRY
		1RPU-049	0				NO RECORDABLE INDICATIONS SCAN FOR LAMINATIONS
N8-IR							
	VOL	1RPU-044	60,70				NO RECORDABLE INDICATIONS
N18							
	VOL	1RPU-046		0,45,60			25-100% DAC. NOZZLE BORE GEOMETRY
		1RPU-046		0			FOUR INDICATIONS 25-100% DAC ID GEOMETRY
		1RPU-048	0				NO RECORDABLE INDICATIONS SCAN FOR LAMINATIONS
N18-IR							
	VOL	1RPU-043	60.70				NO RECORDABLE INDICATIONS
6SPARE-1							
	VOL	1RPU-047	45				NO RECORDABLE INDICATIONS
	SUR	1RPP-002	ACC				NO RECORDABLE INDICATIONS
CRD HOUSING BLT							
	VT-1	1RPV-047				REJ	27 CAP SCREWS REJECTED FOR FURTHER USE DUE TO PITTING CORROSION.
		1RPV-082				REJ	62 CAP SCREWS REJECTED FOR FURTHER USE DUE TO PITTING CORROSION.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-101

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RPV WASHERS							
	VT-1	1RPV-050	ACC				THE FOLLOWING WASHERS WERE EXAMINED: 3A, 10A, 17A, 24A, 31A, 38A, 45A, 52A, 59A, 66A, 73A NO RECORDABLE INDICATIONS
RPV INTERIOR							
	VT-3	1RPV-081				REJ	SPECIMEN HOLDER MISSING FROM 120 DEGREE HOLDER.
		1RPV-081				REJ	SPECIMEN HOLDER AT 120 DEGREE IS MISSING FROM LOWER PART OF ASSEMBLY
		1RPV-083	ACC				NO RECORDABLE INDICATIONS. MISSING SPECIMEN HOLDER REPORTED ON REPORT 1RPV-081
RPV-PB-101(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

LNP-02
INTERVAL: P1
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-101

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RPV NUT 36-1-31A							
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-38A							
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-45A							
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-52A							
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-59A							
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-66A							
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS
RPV NUT 36-1-73A							
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-101

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RPV STUD 35-1-59A	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
RPV STUD 35-1-66A	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
RPV STUD 35-1-73A	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
RPV NUT 36-1-3A	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
RPV NUT 36-1-10A	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
RPV NUT 36-1-17A	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
RPV NUT 36-1-24A	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS
	VOL	1RPU-042	0,37,45				NO RECORDABLE INDICATIONS
	SUR	1RPM-028	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-101

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RPV STUD 35-1-3A							
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-10A							
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-17A							
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-24A							
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-31A							
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-38A							
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-45A							
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-027	ACC				NO RECORDABLE INDICATIONS
RPV STUD 35-1-52A							
	VOL	1RPU-041	0				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: C1
PERIOD: 2
OUTAGE: R4
DRAWING NO. RPV-101

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
N4-210-IR							
	VOL	1RPU-050	25,70				NO RECORDABLE INDICATIONS
N4-210-NB							
	VOL	1RPU-050	25,70				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCIC-31	VT3H	1HV-0116	ACC				NO RECORDABLE INDICATIONS
RCIC-13	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-12	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-11	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-9	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-10	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-16	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-17	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCIC-966N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
HPCS-910N(W)							
	SUR	1HPM-004	ACC				NO RECORDABLE INDICATIONS
HPCS-64(W)							
	SUR	1HPM-003	ACC				NO RECORDABLE INDICATIONS
HPCS-V-51-BLT							
	VT-1	1HPV-003		ACC			MINOR CORROSION ON NUTS AND BOLTS.
HPCS-PB-101(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 09/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12LPCS(1)-8							
	VOL	1LPU-015	43				NO RECORDABLE INDICATIONS THIS DATA SHEET IS APPLICABLE TO THE PIPE SIDE OF WELD ONLY.
		1LPU-016	43				NO RECORDABLE INDICATIONS THIS DATA SHEET IS APPLICABLE TO THE ELBOW SIDE OF WELD ONLY.
	SUR	1LPM-008	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-9							
	VOL	1LPU-017		43			THIS DATA SHEET IS APPLICABLE TO THE UPST SIDE OF WELD ONLY. INDICATIONS CAN BE SEEN 0-360 DEG BELOW 50% DAC, ID GEOMETRY.
		1LPU-019	43				NO RECORDABLE INDICATIONS. THIS DATA SHEET APPLICABLE TO THE DOWNSTREAM SIDE OF WELD ONLY
	SUR	1LPM-009	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-10							
	VOL	1LPU-013	43				NO RECORDABLE INDICATIONS
	SUR	1LPM-007	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-11							
	VOL	1LPU-018	45				NO RECORDABLE INDICATIONS
	SUR	1LPM-005	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12LPCS(1)-12							
	VOL	1LPU-018	45				NO RECORDABLE INDICATIONS
	SUR	1LPM-006	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-13							
	VOL	1LPU-014			45		ID GEOMETRY @ VARIOUS AMPLITUDES 0-360 DEG.
	SUR	1LPM-003	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-14							
	VOL	1LPU-014			45		IN GEOMETRY @ VARIOUS AMPLITUDES 0-360 DEG.
	SUR	1LPM-004	ACC				NO RECORDABLE INDICATIONS
LPCS-905N							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
LPCS-906N							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
LPCS-64							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-17							
	VOL	1LPU-018	45				NO RECORDABLE INDICATIONS
	SUR	1LPM-010	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-18							
	VOL	1LPU-012	45				NO RECORDABLE INDICATIONS
	SUR	1LPP-011	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
LPCS-63							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS PIPE INSULATION RUBS SPRING CAN
12LPCS(1)-18/4LPCS(1)-4							
	SUR	1LPP-014	ACC				NO RECORDABLE INDICATIONS
4LPCS(1)-2							
	VOL	1LPU-011	45				NO RECORDABLE INDICATIONS EXAM LIMITED BY CODE NAME PLATE
	SUR	1LPP-015	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-19							
	VOL	1LPU-012	45				NO RECORDABLE INDICATIONS
	SUR	1LPP-012	ACC				NO RECORDABLE INDICATIONS
LPCS-V-6-BLT							
	VT-1	1LPV-003	ACC				NO RECORDABLE INDICATIONS
12LPCS(1)-20							
	VOL	1LPU-012	45				NO RECORDABLE INDICATIONS NO UPSTREAM SCAN DUE TO VALVE. SEE NOTE 1
	SUR	1LPP-013	ACC				NO RECORDABLE INDICATIONS
LPCS-PB-101(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
LPCS-9							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
LPCS-46							
	VT3H	1HV-0115	ACC				NO RECORDABLE INDICATIONS
LPCS-31							
	VT3H	1HV-0132	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-527							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-380							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS NO WASHERS ON PIPE SIDE END BRACKET
RHR-381							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)A-11							
	VOL	1RHU-075	43				NO RECORDABLE INDICATIONS
	SUR	1RHM-033	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)A-12							
	VOL	1RHU-075		43			ID GEOMETRY
	SUR	1RHM-032	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)A-13							
	VOL	1RHU-075		43			ID GEOMETRY NO EXAM DOWNSTREAM DUE TO VALVE. SEE NOTE 1
	SUR	1RHM-031	ACC				NO RECORDABLE INDICATIONS
RHR-V-41A-BDY							
	VT-3	1RHV-020	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)A-14							
	VOL	1RHU-075		43			ID GEOMETRY NO EXAM DOWNSTREAM DUE TO VALVE. SEE NOTE 1
	SUR	1RHM-030	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-383	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-529	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-PB-101(L)	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 09/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-V-41B-BLT							
	VT-1	1RHV-022		ACC			MINOR CORROSION ON BOLTING AND NUT NO MATERIAL LOSS
RHR-V-111B-BLT							
	VT-1	1RHV-021		ACC			MINOR CORROSION ON BOLTING AND NUTS, NO MATERIAL LOSS
14LPCI(1)B-18							
	VOL	1RHU-073		44			60% DAC EXAM LIMITED BY PWS
	SUR	1RHP-060	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)B-19							
	VOL	1RHU-073	44				NO RECORDABLE INDICATIONS TWO GRIND OUT AREAS LIMIT EXAM. SEE NOTE 1
	SUR	1RHP-060	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)B-20							
	VOL	1RHU-073		44			55% DAC
	SUR	1RHP-060	ACC				NO RECORDABLE INDICATIONS
14LPCI(1)B-21							
	VOL	1RHU-073	44				NO RECORDABLE INDICATIONS
	SUR	1RHP-060	ACC				NO RECORDABLE INDICATIONS
RHR-PB-102(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 06/31/89

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	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
20RHR(2)-14	VOL	1RHU-065	47				NO RECORDABLE INDICATIONS
	SUR	1RHP-055	ACC				NO RECORDABLE INDICATIONS
20RHR(2)-15	VOL	1RHU-066		47			ID GEOMETRY
	SUR	1RHP-055	ACC				NO RECORDABLE INDICATIONS
20RHR(2)-16	VOL	1RHU-067		47			ID GEOMETRY
	SUR	1RHP-055	ACC				NO RECORDABLE INDICATIONS
20RHR(2)-17	VOL	1RHU-068	47				NO RECORDABLE INDICATIONS
	SUR	1RHP-055	ACC				NO RECORDABLE INDICATIONS
20RHR(2)-18	VOL	1RHU-069		47			ID GEOMETRY
	SUR	1RHP-055	ACC				NO RECORDABLE INDICATIONS
RHR-PB-104(L)	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-105

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

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-V-53A-BDY							
	VT-3	1RHV-018		ACC			PSI ON NEW VALVE. MINOR CORROSION ON VALVE FROM GATE TO END OF VALVE VALVE INSTALLED IS TAGGED "RHR-V-53B"
RHR-V-53A-BLT							
	VT-1	1RHV-019	ACC				NO RECORDABLE INDICATIONS PSI OF PRESSURE RETAINING BOLTING ON NEW VALVE RHR-V-53A.
12RHR(1)A-1D							
	VOL	1RHU-071		44			40% DAC ID GEOMETRY PSI OF NEW WELD SEC XI PLAN 2-0461 NO AXIAL SCAN UPSTREAM DUE TO VALVE. SEE NOTE 1
	SUR	1RHP-058	ACC				NO RECORDABLE INDICATIONS PSI OF NEW WELD SEC XI PLAN 2-0461
RHR-SA-39(W)							
	SUR	1RHM-023	ACC				NO RECORDABLE INDICATIONS
RHR-PB-105(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

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	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-158(W)							
	SUR	1RHM-029	ACC				NO RECORDABLE INDICATIONS
RHR-158							
	VT3H	1HV-0155	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-2
		1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-160							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-604							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-603							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-599							
	VT3H	1HV-0149	ACC				NO RECORDABLE INDICATIONS PSI OF NEW STRUT. SNUBBER REPLACED BY SEC XI PLAN 2-0489-2
RHR-1001N(W)							
	SUR	1RHM-024	ACC				NO RECORDABLE INDICATIONS
RHR-187							
	VT3H	1HV-0184	ACC				NO RECORDABLE INDICATIONS
RHR-149							
	VT3H	1HV-0186	ACC				NO RECORDABLE INDICATIONS
RHR-148							
	VT3H	1HV-0185	ACC				NO RECORDABLE INDICATIONS
RHR-146							
	VT3H	1HV-0187	ACC				NO RECORDABLE INDICATIONS
RHR-144							
	VT3H	1HV-0188	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-971N	VT3H	1HV-0140	ACC				NO RECORDABLE INDICATIONS
RHR-142	VT3H	1HV-0189	ACC				NO RECORDABLE INDICATIONS
RHR-363	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-361	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-362(W)	SUR	1RHM-021	ACC				NO RECORDABLE INDICATIONS
RHR-362	VT3H	1HV-0151	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-2
RHR-357	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS UNPAINTED PART OF ATTACHMENT IS RUSTED
RHR-360	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-359	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-358	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-356	VT3H	1HV-0150	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-2
RHR-264	VT3H	1HV-0182	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-201

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-266	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-267	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-269	VT3H	1HV-0183	ACC				NO RECORDABLE INDICATIONS
RHR-280	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-268	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-270	VT3H	1HV-0181	ACC				NO RECORDABLE INDICATIONS
RHR-271	VT3H	1HV-0180	ACC				NO RECORDABLE INDICATIONS
RHR-351	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-1012S	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-1011S	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-353	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-352	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
14RHR(1)A-18	SUR	1RHP-056	ACC				NO RECORDABLE INDICATIONS
	VOL	1RHU-070	45				NO RECORDABLE INDICATIONS
14RHR(1)A-21	SUR	1RHP-057	ACC				NO RECORDABLE INDICATIONS

LNP-02
INTERVAL: 51
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12RHR(1)A-1B	VOL	1RHU-070	45				NO RECORDABLE INDICATIONS
	VOL	1RHU-072	45				NO RECORDABLE INDICATIONS PSI OF NEW WELD SEC XI PLAN 2-0461
	SUR	1RHP-059		ACC			2/16" ROUNDED PSI OF NEW WELD SEC XI PLAN 2-0461
12RHR(1)A-1C	VOL	1RHU-072		45			50% DAC ID GEOMETRY PSI OF NEW WELD SEC XI PLAN 2-0461
	SUR	1RHP-059		ACC			3/32" ROUNDED PSI OF NEW WELD SEC XI PLAN 2-0461
12RHR(1)A-4B	SUR	1RHP-061	ACC				NO RECORDABLE INDICATIONS PSI OF NEW WELD SEC XI PLAN 2-0461
	VOL	1RHU-074		44			50% DAC ID GEOMETRY PSI OF NEW WELD SEC XI PLAN 2-0461

WNP-02
INTERVAL: U1
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-202

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

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-251							
	VT3H	1HV-0152	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-2

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-203

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-278	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-277	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-279	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-276	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-274	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-275	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
18RHR(4)A-8	SUR	1RHP-054	ACC				NO RECORDABLE INDICATIONS
RHR-369	VOL	1RHU-060		45			360 DEG INTERMITTANT GEOMETRY
RHR-405	VT3H	1HV-0153	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-2
RHR-408	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-974N	VT3H	1HV-0195	ACC				NO RECORDABLE INDICATIONS
	VT3H	1HV-0141	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT 18RHR(20)2
DESCRIPTION: RCIC STM-RHR HX-1A

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-589							
	N/A	1HV-0154	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-2
RHR-597(W)							
	SUR	1RHM-025	ACC				NO RECORDABLE INDICATIONS
RHR-597							
	VT3H	1HV-0177	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-2

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT 20RHR(2)-2
DESCRIPTION: RHR SHUTDN COOL SUCT

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
20RHR(2)A-7							
	SUR	1RHP-052	ACC				NO RECORDABLE INDICATIONS
RHR-58	VOL	1RHU-058	44				NO RECORDABLE INDICATIONS
RHR-471	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-56	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-119	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-120	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-917N	VT3H	1HV-0106	ACC				NO RECORDABLE INDICATIONS
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-206

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-122	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-124	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-123	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-125	VT3H	1HV-0113	ACC				NO RECORDABLE INDICATIONS
RHR-126	VT3H	1HV-0109		ACC			NO RECORDABLE INDICATIONS
RHR-127	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-128	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: C1
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-207

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-53(W)							
	SUR	1RHM-020	ACC				NO RECORDABLE INDICATIONS
RHR-53							
	VT3H	1HV-0139	ACC				NO RECORDABLE INDICATIONS LIMITED CLEARANCE BETWEEN RHR-53 BEAM & LINE BELOW.
RHR-465(W)							
	SUR	1RHM-022	ACC				NO RECORDABLE INDICATIONS
RHR-470							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RHR-479(W)							
	SUR	1RHM-028	ACC				NO RECORDABLE INDICATIONS
RHR-486(W)							
	SUR	1RHM-027	ACC				NO RECORDABLE INDICATIONS
RHR-911N							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-210

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RHR-304							
	VT3H	1HV-0146	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0511

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-211

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

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
24RHR(3)-17							
	VOL	1RHU-059	44				NO RECORDABLE INDICATIONS
	SUR	1RHP-053	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RHR-214

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
AC-4							
	VOL	1RHU-061	60				NO RECORDABLE INDICATIONS
		1RHU-062	45				NO RECORDABLE INDICATIONS
		1RHU-064	0				NO RECORDABLE INDICATIONS
AN-4							
	VOL	1RHU-061	60				NO RECORDABLE INDICATIONS
		1RHU-063	0				NO RECORDABLE INDICATIONS
	SUR	1RHM-026	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 03/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
		1MSV-041	ACC				GALLING, GOUGES AND WEAR: THIS DAMAGE IS LESS THAN 1/8" DEEP AND IS MOST NOTABLE FROM 90 TO 270 DEG
MS-PB-101(L)	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-192

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-HB-1(W)							
	SUR	1MSM-020	ACC				NO RECORDABLE INDICATIONS
26MS(1)B-5/10RCIC(12)-4							
	VOL	1MSU-050	44				NO RECORDABLE INDICATIONS
	SUR	1MSP-064	ACC				NO RECORDABLE INDICATIONS
26MS(1)B-9/8MSR-1B							
	VOL	1MSU-051	45				NO RECORDABLE INDICATIONS NO SCAN DOWNSTREAM DUE TO SWL. SEE NOTE 1
	SUR	1MSM-021	ACC				NO RECORDABLE INDICATIONS
8MSR-1B1							
	VOL	1MSU-052	45				NO RECORDABLE INDICATIONS NO SCAN UPSTREAM DUE TO SWL. SEE NOTE 1
	SUR	1MSM-019	ACC				NO RECORDABLE INDICATIONS
8MSR-1B-2BD							
	VT-1	1MSV-093	ACC				NO RECORDABLE INDICATIONS
MS-SB-3							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-SB-4							
	VT3H	1HV-0122	ACC				NO RECORDABLE INDICATIONS
MS-HB-3							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-SB-1							
	VT3H	1HV-0138	ACC				NO RECORDABLE INDICATIONS
MS-SB-2							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-PB-102(L)	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
26MS(1)C-4LUI							
	VOL	1MSU-049	46				NO RECORDABLE INDICATIONS
	SUR	1MSP-061	ACC				NO RECORDABLE INDICATIONS
26MS(1)C-4LUO							
	VOL	1MSU-049	46				NO RECORDABLE INDICATIONS
	SUR	1MSP-060	ACC				NO RECORDABLE INDICATIONS
26MS(1)C-4							
	VOL	1MSU-049	46				NO RECORDABLE INDICATIONS
	SUR	1MSP-062	ACC				NO RECORDABLE INDICATIONS
MS-PB-103(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-V-22D-BDY							
	VT-3	1MSV-092	ACC				NO RECORDABLE INDICATIONS PSI EXAM OF MACHINED AREAS
MS-V-28D-BDY							
	VT-3	1MSV-071	ACC				NO RECORDABLE INDICATIONS. PSI OF MACHINED AREAS SEC XI REPAIR PLAN 2-0500
MS-PB-104(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-195

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-PB-105(L)	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-2
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-2619-14							
	VT3H	1HV-0161	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED BY SEC PLAN 2-0488-1
MS-2619-13							
	VT3H	1HV-0143	ACC				NO RECORDABLE INDICATIONS
MS-2619-16							
	VT3H	1HV-0162	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1
MS-2619-15							
	VT3H	1HV-0144	ACC				NO RECORDABLE INDICATIONS
MS-2619-21							
	VT3H	1HV-0163	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1
MS-2619-210							
	VT3H	1HV-0165	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1
MS-2619-214							
	VT3H	1HV-0123	ACC				NO RECORDABLE INDICATIONS
		1HV-0174	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED BY SEC XI PLAN 2-0488-1
MS-2619-26							
	VT3H	1HV-0164	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-2619-312	VT3H	1HV-0166	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1
MS-2619-311	VT3H	1HV-0167	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED BY SEC XI PLAN 2-0488-1
MS-2619-313	VT3H	1HV-0168	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED BY SEC XI PLAN 2-0488-1
MS-2619-314	VT3H	1HV-0169	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED BY SEC XI PLAN 2-0488-1
MS-2619-319	VT3H	1HV-0171	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1
MS-2619-318	VT3H	1HV-0170	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1
MS-2619-46	VT3H	1HV-0172	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-2619-42A							
	VT3H	1HV-0173	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1
MS-PB-106(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-201

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

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-117(W)	SUR	1MSM-015	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: C1
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-173(W)	SUR	1MSM-014	ACC				NO RECORDABLE INDICATIONS
MS-998N(W)	SUR	1MSM-009	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-202

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
2MS(20)B-3							
	SUR	1MSP-057	ACC				NO RECORDABLE INDICATIONS
2MS(20)B-4							
	SUR	1MSP-059	ACC				NO RECORDABLE INDICATIONS
2MS(20)B-5							
	SUR	1MSP-059	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-1003N(W)	SUR	1MSM-016	ACC				NO RECORDABLE INDICATIONS
MS-39(W)	SUR	1MSM-012	ACC				NO RECORDABLE INDICATIONS
MS-30(W)	SUR	1MSM-017	ACC				NO RECORDABLE INDICATIONS
MS-26(W)	SUR	1MSM-017	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-203

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

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
2MS(20)C-4	SUR	1MSP-058	ACC				NO RECORDABLE INDICATIONS
2MS(20)C-5	SUR	1MSP-058	ACC				NO RECORDABLE INDICATIONS
2MS(20)C-6	SUR	1MSP-058	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-1010N(W)							
	SUR	1MSM-018	ACC				NO RECORDABLE INDICATIONS
MS-1010N							
	VT3H	1HV-0159	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-3
MS-61(W)							
	SUR	1MSM-011	ACC				NO RECORDABLE INDICATIONS
MS-59(W)							
	SUR	1MSM-011	ACC				NO RECORDABLE INDICATIONS
MS-58							
	VT3H	1HV-0179	ACC				NO RECORDABLE INDICATIONS
MS-57							
	VT3H	1HV-0158	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-3
MS-87							
	VT3H	1HV-0178	ACC				NO RECORDABLE INDICATIONS
MS-53							
	VT3H	1HV-0156		ACC			NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-3
MS-54							
	VT3H	1HV-0157	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-3
MS-51(W)							
	SUR	1MSM-010	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MS HDR / BYPASS VLV

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-180							
	VT3H	1HV-0110	ACC				NO RECORDABLE INDICATIONS
MS-181							
	VT3H	1HV-0111	ACC				NO RECORDABLE INDICATIONS
MS-181(W)							
	SUR	1MSM-013	ACC				NO RECORDABLE INDICATIONS
MS-182							
	VT3H	1HV-0112	ACC				NO RECORDABLE INDICATIONS
MS-182(W)							
	SUR	1MSM-013	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12RFW(1)AC-1							
	VOL	1FWU-063	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-056	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AC-2							
	VOL	1FWU-062	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-056	ACC				NO RECORDABLE INDICATIONS
12RFW(1)AC-5							
	VOL	1FWU-062	45				NO RECORDABLE INDICATIONS
	SUR	1FWP-056	ACC				NO RECORDABLE INDICATIONS
RFW-157(W)							
	SUR	1FWM-007	ACC				NO RECORDABLE INDICATIONS
RFW-PB-101(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 10/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
24RFW(1)B-4							
	VOL	1FWU-076		45			ID RCCT GEOMETRY NO SCAN FROM DOWNSTREAM SIDE DUE TO VALVE. SEE NOTE 1
	SUR	1FWM-006	ACC				NO RECORDABLE INDICATIONS
24RFW(1)B-8							
	VOL	1FWU-075		46			INDICATIONS CAN BE SEEN 360 DEG BELOW RECORDABLE LEVEL AND IS A ONE SIDED EXAM. LIMITED EXAM DUE TO TEST LINE: W=3.2" L=2" FROM 315 DEG TO 5" FROM 315 DEG.
	SUR	1FWM-005	ACC				NO RECORDABLE INDICATIONS
24RFW(1)B-9							
	VOL	1FWU-075		46			INDICATIONS CAN BE SEEN 360 DEG BELOW RECORDABLE LEVEL AND IS A ONE SIDED EXAM. LIMITED EXAM DUE TO TEST LINE: W=3.2" L=2" FROM 315 DEG TO 5" FROM 315 DEG. SEE NOTE 1
	SUR	1FWM-005	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BE-1							
	VOL	1FWU-069		43			INDICATIONS CAN BE SEEN 0-360 DEG. BELOW 50% DAC ID GEOMETRY. NO AXIAL SCAN UPSTREAM DUE TO TEE. SEE NOTE 1
	SUR	1FWP-060	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RFW-102

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12RFW(1)BE-3							
	VOL	1FWU-070		43			INDICATIONS CAN BE SEEN 0-360 DEG BELOW 50% DAC ID GEOMETRY.
	SUR	1FWP-060	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BE-4							
	VOL	1FWU-071	43				NO RECORDABLE INDICATIONS SEE REPORT 1FWU-074 FOR PIPE SIDE SCAN. SEE NOTE 1
		1FWU-073	44				NO RECORDABLE INDICATIONS SEE REPORT 1FWU-071 FOR ADDITIONAL SCAN. LIMITED DUE TO PWS. SEE NOTE 1
	SUR	1FWP-059	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BE-5							
	VOL	1FWU-072		43			INDICATIONS CAN BE SEEN 360 DEG INTERMITTANT BELOW 50% DAC ID GEOMETRY. SEE REPORT 1FWU-074 FOR PIPE SIDE SCAN. NO AXIAL SCAN DOWN STREAM DUE TO PERM. INSUL. SEE NOTE 1
		1FWU-074		44			65% DAC INTERMITTANT. SEE REPORT 1FWU-072 FOR EL SIDE SCANS
	SUR	1FWP-059	ACC				NO RECORDABLE INDICATIONS
12RFW(1)BE-6							
	VOL	1FWU-068	44				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12RFW(1)BE-7	SUR	1FWP-057	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-068	44				NO RECORDABLE INDICATIONS
12RFW(1)BD-9	SUR	1FWP-057	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-066	44				NO RECORDABLE INDICATIONS ONE SIDED EXAM. DISSIMILAR METAL INCONEL WELD SIDE EXAMINED.
		1FWU-067	45				NO RECORDABLE INDICATIONS ONE SIDED EXAM. DISSIMILAR METAL CARBON STEEL SIDE EXAMINED.
12RFW(1)BD-10	SUR	1FWP-058	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-065	44				NO RECORDABLE INDICATIONS
12RFW(1)BD-11	SUR	1FWP-058	ACC				NO RECORDABLE INDICATIONS
	VOL	1FWU-064		45			360 DEG INTERMITTANT ID GEOMETRY 150% CAC
RFW-PB-102(L)	SUR	1FWP-058	ACC				NO RECORDABLE INDICATIONS
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RFW-103

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RWCU-V-40-BLT							
	VT-1	1FWV-006		ACC			VERY LIGHT CORROSION
RFW-942N							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RFW-PB-103(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-HA-1(W)							
	SUR	1RRP-072	ACC				NO RECORDABLE INDICATIONS
RRC-HA-1							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RRC-SA-19							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RRC-SA-20							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RRC-SA-25							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RRC-SA-2							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RRC-SA-1							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RRC-V-23A-BLT							
	VT-1	1RRV-019		ACC			MINOR CORROSION ON NUTS & BOLTS
24RRC(2)A-10/4RRC(8)-4S							
	VOL	1RRU-135	45				NO RECORDABLE INDICATIONS NO DOWNSTREAM EXAM DUE TO SWL SEE NOTE 1
	SUR	1RRP-072	ACC				NO RECORDABLE INDICATIONS
4RRC(8)2A-1							
	VOL	1RRU-136	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-072	ACC				NO RECORDABLE INDICATIONS
4RRC(8)2A-2							
	VOL	1RRU-136		45			ID GEOMETRY
	SUR	1RRP-072	ACC				NO RECORDABLE INDICATIONS

LNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
24RRC(2)A-13/4RRC(4)-4S							
	VOL	1RRU-135	45				NO RECORDABLE INDICATIONS NO DOWNSTREAM EXAM DUE TO SWL SEE NOTE 1
	SUR	1RRP-072	ACC				NO RECORDABLE INDICATIONS
24RRC(1)A-13/8CAP							
	VOL	1RRU-134		45			25-60% DAC EXAM LIMITED DUE TO HANGER
	SUR	1RRP-070	ACC				NO RECORDABLE INDICATIONS EXAM LIMITED BY HANGER RRC-SA-66
		1RRP-070	ACC				NO RECORDABLE INDICATIONS EXAM LIMITED BY HANGER RRC-SA-66
24RRC(1)A-13/8CAP-1							
	VOL	1RRU-133	44				NO RECORDABLE INDICATIONS NO SCAN UPSTREAM DUE TO SWL. SEE NOTE 1
	SUR	1RRP-071	ACC				NO RECORDABLE INDICATIONS
4RRC(8)1A-1							
	VOL	1RRU-132	44				NO RECORDABLE INDICATIONS
	SUR	1RRP-068	ACC				NO RECORDABLE INDICATIONS
4RRC(8)1A-2							
	VOL	1RRU-132	44				NO RECORDABLE INDICATIONS
	SUR	1RRP-069	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

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	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-HB-1							
	VT3H	1HV-0137		ACC			HANGER WAS EXAMINED AFTER EXAMINER NOTICED THAT IT HAD MOVED. THE MOVEMENT WAS EVALUATED AND FOUND TO BE NORMAL FOR THIS TYPE OF HANGER
RRC-V-67B-BLT							
	VT-1	1RRV-018		ACC			MINOR CORROSION ON NUTS & BOLTS
RRC-PB-102(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

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	1VT2-89	ACC				EXAM AREA IS COVERED ON DRAWINGS RRC-101 AND RRC-102

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RRC-104

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RRC(51)-5A							
	VOL	1RRU-129	45				ID ROOT GEOMETRY 60 % DAC. PSI OF NEW WELD ADDED PER SEC XI PLAN 2-0412
	SUR	1RRP-065		ACC			3 1/16" ROUNDED INDICATIONS PSI OF NEW WELD ADDED PER SEC XI PLAN 2-0412
4RRC(51)-5B							
	VOL	1RRU-130	45				NO RECORDABLE INDICATIONS. PSI OF NEW WELD ADDED PER SEC XI PLAN 2-0412
	SUR	1RRP-066		ACC			1/16" ROUNDED INDICATION PSI OF NEW WELD ADDED PER SEC XI PLAN 2-0412
RRC-PB-104(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-105(L)	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-2
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12RRC(7)A-3LD	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
12RRC(7)A-4LU	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
12RRC(7)A-4	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
12RRC(7)A-4LDI	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
12RRC(7)A-4LDO	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
12RRC(7)A-5LUI	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
12RRC(7)A-5LUO	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
12RRC(7)A-5	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
12RRC(7)A-5LD							
	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
12RRC(7)A-6LU							
	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
12RRC(7)A-6							
	VOL	1RRU-131	45				NO RECORDABLE INDICATIONS NO SCAN DOWNSTREAM DUE TO SWL SEE NOTE 1
	SUR	1RRP-067	ACC				NO RECORDABLE INDICATIONS
RRC-PB-106(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

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	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-C2
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
4RRC(4)A-2							
	VOL	1RRU-137		46			60% DAC ID GEOMETRY NO DOWNSTREAM EXAM DUE TO SWL SEE NOTE 1
4RRC(4)A-6							
	VOL	1RRU-137		46			TWO INDICATIONS 50-60% DAC. ID GEOMETRY NO DOWNSTREAM SCAN DUE TO SWL SEE NOTE 1
	SUR	1RRP-073	ACC				NO RECORDABLE INDICATIONS
4RRC(4)A-7							
	VOL	1RRU-137		46			ONE INDICATION 65% DAC ID GEOMETRY NO SCAN DOWNSTREAM DUE TO SWL SEE NOTE 1
	SUR	1RRP-073	ACC				NO RECORDABLE INDICATIONS
RRC-PB-108(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: C1
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMEIRY	SIGNIFICANT OTHER	REMARKS
RRC-PB-109(L)	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

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	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

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	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RWCU-V-101-BLT							
	VT-1	1RTV-001	ACC				NO RECORDABLE INDICATIONS
RWCU-1C-17(W)							
	SUR	1RTM-001	ACC				NO RECORDABLE INDICATIONS
RWCU-V-106-BLT							
	VT-1	1RTV-002		ACC			VALVE BOLTING IN PLACE UNDER TENSION. MINOR SURFACE RUST ON BOLTING. NO MATERIAL LOSS.
RWCU-1C-4							
	VT3H	1HV-0160	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1
RWCU-1C-1							
	VT3H	1HV-0191	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1
RWCU-PB-101(L)							
	VT-2	1VT2-89	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RWCU-301

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

DATE 09/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RWCU-927N							
	VT3H	1HV-0147	ACC				NO RECORDABLE INDICATIONS NEW DESIGN. REPLACED PSA-35 SNUBBER WITH PSA-3 SNUBBER SEC XI PLAN 2-0488-2. PSI OF NEW STRUT.
6RWCU(3)-32							
	VOL	1RTU-013	45				NO RECORDABLE INDICATIONS
6RWCU(3)-36							
	VOL	1RTU-014		45			ID GEOMETRY

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-301

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-124							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-124(W)							
	VT-3	1SWV-091	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 1
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-302

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(17)-2
DESCRIPTION: SW LOOP A SUPPLY

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-268							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-270							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-237							
	VT3H	1HV-0117		ACC			NO CLEARANCE. ACCEPTABLE PER PPM 10.2.29
SW-237(W)							
	VT-3	1SWV-068	ACC				NO RECORDABLE INDICATIONS
SW-243							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-243(W)							
	VT-3	1SWV-071	ACC				NO RECORDABLE INDICATIONS
SW-269							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-303

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-156	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-155	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS UNPAINTED LUGS ARE RUSTED
SW-155(W)	VT-3	1SWV-088	ACC				SOME RUSTING, BUT NO PITTING OF WELDS. PART PAINTED.
SW-154	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS UNPAINTED LUGS ARE RUSTED
SW-154(W)	VT-3	1SWV-090	ACC				NO RECORDABLE INDICATIONS
SW-229	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-228	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-146	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-145	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-144	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-208	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-143	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-432	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-303

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-141	VT3H	1HV-0133	ACC				NO RECORDABLE INDICATIONS
SW-141(W)	VT-3	1SWV-072	ACC				NO RECORDABLE INDICATIONS
SW-136	VT3H	1HV-0125	ACC				NO RECORDABLE INDICATIONS
SW-136(W)	VT-3	1SWV-075	ACC				NO RECORDABLE INDICATIONS
SW-135	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-135(W)	VT-3	1SWV-082	ACC				NO RECORDABLE INDICATIONS
SW-134	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-133	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-132	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-132(W)	VT-3	1SWV-083	ACC				NO RECORDABLE INDICATIONS
SW-230	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-230(W)	VT-3	1SWV-084	ACC				NO RECORDABLE INDICATIONS
SW-131	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-131(W)	VT-3	1SWV-085	ACC				NO RECORDABLE INDICATIONS
SW-130	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-303

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-130(W)	VT-3	1SWV-086	ACC				PIPING AND WELDED ATTACHMENTS ARE BURIED IN FIRE BARRIER INSULATION WITH EXCEPTION OF ABOUT 3 INCHES WHICH WAS EXAMINED.
SW-129	VT3H	1HV-0114	ACC				NO RECORDABLE INDICATIONS
SW-129(W)	VT-3	1SWV-073	ACC				NO RECORDABLE INDICATIONS
SW-128	VT3H	1HV-0134	ACC				NO RECORDABLE INDICATIONS
SW-128(W)	VT-3	1SWV-074	ACC				NO RECORDABLE INDICATIONS
SW-8	VT3H	1HV-0128	ACC				NO RECORDABLE INDICATIONS
SW-8(W)	VT-3	1SWV-077	ACC				NO RECORDABLE INDICATIONS
SW-9	VT3H	1HV-0129	ACC				NO RECORDABLE INDICATIONS
SW-9(W)	VT-3	1SWV-078	ACC				NO RECORDABLE INDICATIONS
SW-918N	VT3H	1HV-0131	ACC				NO RECORDABLE INDICATIONS
SW-918N(W)	VT-3	1SWV-079	ACC				NO RECORDABLE INDICATIONS
SW-20	VT3H	1HV-0130	ACC				NO RECORDABLE INDICATIONS
SW-20(W)	VT-3	1SWV-076	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: G1
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-305

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-36							
	VT3H	1HV-0108		ACC			NO CLEARANCE. ACCEPTABLE PER PPM 10.2.29
SW-36(W)							
	VT-3	1SWV-066		ACC			MINOR CORROSION ON WELDS IN PIPE SLEEVE. WELDS OUTSIDE OF SLEEVE ARE PAINTED
SW-35							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-35(W)							
	VT-3	1SWV-065	ACC				NO RECORDABLE INDICATIONS. WELD SURFACES ARE PAINTED
SW-33							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-33(W)							
	VT-3	1SWV-067		ACC			MINOR CORROSION ON PIPE SIDE OF WELDS IN UNPAINTED AREA. TOP AND BOTTOM LUGS ARE PAINTED
SW-32							
	VT3H	1HV-0105		ACC			NO CLEARANCE. ACCEPTABLE PER PPM 10.2.28
SW-32(W)							
	VT-3	1SWV-064		ACC			MINOR CORROSION ON PIPE SIDE OF WELDS
SW-31							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-31(W)							
	VT-3	1SWV-060		ACC			MINOR CORROSION ON PIPE SIDE OF WELDS. PADS, WELDS ARE PAINTED

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-305

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

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-30							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-194(W)							
	VT-3	1SWV-070		ACC			NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-307

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(24)-2
DESCRIPTION: SW LOOP B RETURN

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-180(W)							
	VT-3	1SWV-069		ACC			LIGHT SURFACE RUST AROUND ITEM #1 ON PIPE SURFACE. NO MATERIAL LOSS
SW-86							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-87							
	VT3H	1HV-0104		ACC			NO CLEARANCE. ACCEPTABLE PER 10.2.29
SW-87(W)							
	VT-3	1SWV-061		ACC			MINOR CORRISION ON PIPE SIDE OF WELDS. PADS, WELDS ARE PAINTED
SW-88							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-88(W)							
	VT-3	1SWV-063		ACC			MINOR CORROSION ON PIPE SIDE OF WELDS
SW-89							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-89(W)							
	VT-3	1SWV-062		ACC			MINOR CORROSION ON PIPE SIDE OF WELDS IN UNPAINTED AREA. TOP AND BOTTOM LUGS ARE COMPLETELY PAINTED
SW-927N							
	VT3H	1HV-0135	ACC				NO RECORDABLE INDICATIONS
SW-928N							
	VT3H	1HV-0124		ACC			CORRCSION ON WASHER AND BOLT THREADS EXTENDING BEYOND NUT
SW-929N							
	VT3H	1HV-0136	ACC				NO RECORDABLE INDCICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-311

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT SW(73)-1
DESCRIPTION: SW HPCS LOOP RETURN

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-282							
	VT3H	1HV-0126	ACC				NO RECORDABLE INDICATIONS
SW-282(W)							
	VT-3	1SWV-080	ACC				NO RECORDABLE INDICATIONS
SW-291							
	VT3H	1HV-0127	ACC				NO RECORDABLE INDICATIONS
SW-291(W)							
	VT-3	1SWV-081	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-312

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-982N							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-982N(W)							
	VT-3	1SWV-089	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. SW-313

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
SW-984N							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
SW-984N(W)							
	VT-3	1SWV-087	ACC				SOME RUSTING, BUT NO PITTING OF WELDS. PART PAINTED.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-51	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-52	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-44(W)	VT-3	1FPV-008		ACC			MINOR SURFACE CORROSION ON WELDS
FPC-42(W)	VT-3	1FPV-007	ACC				NO RECORDABLE INDICATIONS. LUGS AND WELDS ARE PAINTED

WNP-2
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-179							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-180							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-181							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. FPC-302

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-177							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-178							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-(2
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-187							
	VT3H	1HV-J190	ACC				NO RECORDABLE INDICATIONS
FPC-190							
	VT3H	1HV-G190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-194							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-211	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-213	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-231	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-231(W)	VT-3	1FPV-009	ACC				NO RECORDABLE INDICATIONS
FPC-159	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-158	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-915N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. FPC-306

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(8)-1
DESCRIPTION: SUPPR POOL TO SUCT

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
FPC-122							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-126							
	VT3H	1HV-0107		ACC			NO CLEARANCE. ACCEPTABLE PER PPM 1.0.2.29
FPC-119							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
FPC-118							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RCC-301

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCC-909N	VT3H	1HV-0176	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-1

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RCC-302

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCC-327							
	VT3H	1HV-0175	ACC				NO RECORDABLE INDICATIONS PSI OF REPLACEMENT STRUT. SNUBBER REPLACED BY SEC XI PLAN 2-0468-1

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RCC-303

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCC-946N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-950N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-951N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-952N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-947N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-948N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-949N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. RCC-304

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
RCC-940N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-937N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-935N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-939N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-941N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
RCC-938N	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-304

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-276							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-2							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-2(W)							
	VT-3	1MSV-056		ACC			NO RECORDABLE INDICATIONS
MSRV-4A-3							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-3(W)							
	VT-3	1MSV-051	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-1							
	VT3H	1HV-0119		ACC			MINOR CORROSION ON SHAFT
MSRV-4A-1(W)							
	VT-3	1MSV-052		ACC			MINOR CORROSION ON WELD. NO APPARENT MATERIAL LOSS.
MSRV-4A-4							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-4(W)							
	VT-3	1MSV-044	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-5							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-5(W)							
	VT-3	1MSV-043	ACC				NO RECORDABLE INDICATIONS
MS-277							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-277(W)							
	VT-3	1MSV-042	ACC				NO RECOORABLE INDICATIONS
MS-278							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-304

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

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-278(W)	VT-3	1MSV-057	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-8	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-8(W)	VT-3	1MSV-058	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-10	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-10(W)	VT-3	1MSV-059	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-9	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-6	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-7	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-279	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-279(W)	VT-3	1MSV-046	ACC				NO RECORDABLE INDICATIONS
MS-333	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4A-8PS	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-306

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1B)2-11
DESCRIPTION: MS-RV-2B DISCHARGE

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-320							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-3							
	VT3H	1HV-0118		ACC			NO RECORDABLE INDICATIONS
MSRV-2B-3(W)							
	VT-3	1MSV-055	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-1							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-1(W)							
	VT-3	1MSV-054		ACC			MINOR CORROSION ON THE ATTACHMENT WELD. NO APPARENT MATERIAL LOSS.
MSRV-2B-4							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-2							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-2(W)							
	VT-3	1MSV-065	ACC				NO RECORDABLE INDICATIONS
MS-321							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-6							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-6(W)							
	VT-3	1MSV-045	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-5(W)							
	VT-3	1MSV-084	ACC				NO RECORDABLE INDICATIONS
MS-322							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-322(W)							
	VT-3	1MSV-067	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-306

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(18)2-11
DESCRIPTION: MS-RV-2B DISCHARGE

DATE 08/31/89

IDENT..NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MSRV-2B-7							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-7(W)							
	VT-3	1MSV-066	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-8							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-8(W)							
	VT-3	1MSV-065	ACC				NO RECORDABLE INDICATIONS
MS-323							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-323(W)							
	VT-3	1MSV-048	ACC				NO RECORDABLE INDICATIONS
MS-344							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-344(W)							
	VT-3	1MSV-047	ACC				NO RECORDABLE INDICATIONS
MSRV-2B-9PS							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-309

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(18)2-14
DESCRIPTION: MS-RV-5B DISCHARGE

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MSRV-5B-2(W)	VT-3	1MSV-089	ACC				NO RECORDABLE INDICATIONS
MSRV-5B-1(W)	VT-3	1MSV-088	ACC				NO RECORDABLE INDICATIONS
MSRV-5B-5(W)	VT-3	1MSV-087	ACC				NO RECORDABLE INDICATIONS
MSRV-5B-4(W)	VT-3	1MSV-086	ACC				NO RECORDABLE INDICATIONS
MS-345(W)	VT-3	1MSV-076		ACC			WELDED ATTACHMENT HAS RUST ON SURFACE BOTTOM SIDE OF PIPE BETWEEN ATTACHMENT HAS RUST ON SURFACE NO MATERIAL LOSS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-310

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(18)2-9
DESCRIPTION: MS-RV-1C DISCHARGE

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-293							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-2							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-2(W)							
	VT-3	1MSV-053	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-3							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-3(W)							
	VT-3	1MSV-049	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-1							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-1(W)							
	VT-3	1MSV-050	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-7							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-294							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-294(W)							
	VT-3	1MSV-062	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-4							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-4(W)							
	VT-3	1MSV-061	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-5							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-5(W)							
	VT-3	1MSV-063	ACC				NO RECORDABLE INDICATIONS
MS-295							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-310

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-295(W)							
	VT-3	1MSV-060	ACC				NO RECORDABLE INDICATIONS
MS-336							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-336(W)							
	VT-3	1MSV-068	ACC				NO RECORDABLE INDICATIONS
MSRV-1C-6PS							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-313

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(18)-2-6
DESCRIPTION: MS-RV-4C DISCHARGE

DATE 08/31/89

IDENT. NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MSRV-4C-2(W)	VT-3	1MSV-073		ACC			NO RECORDABLE INDICATIONS
MSRV-4C-3(W)	VT-3	1MSV-074	ACC				NO RECORDABLE INDICATIONS
MSRV-4C-1(W)	VT-3	1MSV-072	ACC				NO RECORDABLE INDICATIONS
MS-305(W)	VT-3	1MSV-077	ACC				NO RECORDABLE INDICATIONS
MSRV-4C-5(W)	VT-3	1MSV-078	ACC				NO RECORDABLE INDICATIONS
MSRV-4C-6(W)	VT-3	1MSV-079	ACC				NO RECORDABLE INDICATIONS
MSRV-4C-4(W)	VT-3	1MSV-080	ACC				NO RECORDABLE INDICATIONS
MSRV-4C-8(W)	VT-3	1MSV-081	ACC				NO RECORDABLE INDICATIONS
MSRV-4C-7(W)	VT-3	1MSV-082	ACC				NO RECORDABLE INDICATIONS
MS-306(W)	VT-3	1MSV-083	ACC				NO RECORDABLE INDICATIONS
MS-307(W)	VT-3	1MSV-075	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
DRAWING NO. MS-318

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

DATE 08/31/89

IDENT.NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY	SIGNIFICANT OTHER	REMARKS
MS-318							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-318(W)							
	VT-3	1MSV-064	ACC				NO RECORDABLE INDICATIONS
MSRV-4D-4							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4D-5							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MS-319							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS
MSRV-4D-7PS							
	VT3H	1HV-0190	ACC				NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R4
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 08/31/89

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	1VT2-89	ACC				NO RECORDABLE INDICATIONS
SLC-4453-68							
	VT3H	1HV-0145	ACC				NO RECORDABLE INDICATIONS PSI ON REPLACEMENT STRUT. SNUBBER REPLACED SEC XI PLAN 2-0488-2

APPENDIX C

Repair/Replacement Listing
NIS-2 Owner's Reports

This appendix summarizes all ASME Section XI repairs/replacements completed between June 27, 1988 and June 26, 1989. Also contained in this appendix are NIS-2 forms, not previously submitted, for work completed prior to June 27, 1988. 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.

ASME SECTION XI REPAIR/REPLACEMENT LISTING for WNP-2

PLAN, MWR, or PPN No.	COMPONENT IDENT. NUMBER and/or WORK DESCRIPTION	COMPONENT DESCRIPTION	NIS-2 REPORT IN SUMMARY REPORT
2-0279R1	SPRAY POND CROSS-TIE	PIPING	RF89A SUMMARY REPORT
2-0329	RHR-RV-25C: TEST CONN.	RELIEF VALVE	SEE PLAN 2-0329R1
2-0329R1	RHR-RV-25C: TEST CONN.	RELIEF VALVE	RF89A SUMMARY REPORT
2-0374	RHR-RV-1B	RELIEF VALVE	RF89A SUMMARY REPORT
2-0393	RWCU-HX-1B: REPLACE DIAPHRAGM	HEAT EXCHANGER	RF89A SUMMARY REPORT
2-0397	RRC-V-20: BODY TO BONNET SEAL WELD	VALVE	WORK COMPLETE NIS-2 NOT REQUIRED
2-0399	FPC-V-122 DISC TRAVEL STOP	VALVE	RF89A SUMMARY REPORT
2-0400	RHR(1)-4A,4B,4C & RHR-V-709A,B,C	PIPING	RF89A SUMMARY REPORT
2-0402	RHR-RV-5 TEST CONN.	RELIEF VALVE	RF89A SUMMARY REPORT
2-0408	RWCU-P-1B	PIPING	RF89A SUMMARY REPORT
2-0409	RWCU-P-1B	COMPONENT SUPPORT	RF89A SUMMARY REPORT
2-0410	RWCU-P-1A	PIPING	RF89A SUMMARY REPORT
2-0411	RWCU-P-1A	COMPONENT SUPPORT	RF89A SUMMARY REPORT
2-0412	RPV DRAIN LINE	PIPING	RF89A SUMMARY REPORT
2-0419	RHR-RV-25B	RELIEF VALVE	RF89A SUMMARY REPORT
2-0420	RHR-V-23	VALVE	RF89A SUMMARY REPORT
2-0421- 1	FPC-V-140	VALVE	RF89A SUMMARY REPORT
2-0421- 2	FPC-V-146A	VALVE	WORK COMPLETE NIS-2 NOT ISSUED
2-0421- 3	FPC-V-146B	VALVE	WORK COMPLETE NIS-2 NOT ISSUED
2-0421- 7	HPCS-V-28	VALVE	RF89A SUMMARY REPORT
2-0421- 9	RCIC-V-11	VALVE	RF89A SUMMARY REPORT
2-0421-10	RCIC-V-30	VALVE	RF89A SUMMARY REPORT
2-0423	CIA-RV-5A	RELIEF VALVE	RF89A SUMMARY REPORT
2-0424	CIA-RV-5B	RELIEF VALVE	RF89A SUMMARY REPORT
2-0437	SNUBBERS ON CVB-V-1QR	COMPONENT SUPPORT	WORK COMPLETE NIS-2 NOT REQUIRED

ASME SECTION XI REPAIR/REPLACEMENT LISTING for WNP-2

PLAN, NUR, or PPN No.	COMPONENT IDENT. NUMBER and/or WORK DESCRIPTION	COMPONENT DESCRIPTION	NIS-2 REPORT IN SUMMARY REPORT
2-0438	RCIC-V-752D: REPLACE	PIPING	RF89A SUMMARY REPORT
2-0440	RCIC-V-30 ARC STRIKE	VALVE	RF89A SUMMARY REPORT
2-0443-1	MS-V-37S BOLTING MATERIAL, MS(18)-2 (MSRV LINE)	PIPING	RF89A SUMMARY REPORT
2-0443-2	MS-V-37J BOLTING MATERIAL, MS(18)-2 (MSRV LINE)	PIPING	RF89A SUMMARY REPORT
2-0443-3	MS-V-38C BOLTING MATERIAL, MS(18)-2 (MSRV LINE)	PIPING	RF89A SUMMARY REPORT
2-0444	RCIC-V-54: REPLACE	PIPING	RF89A SUMMARY REPORT
2-0445-1	RWCU-RV-2 BOLTING ON RWCU-HX-2A	HEAT EXCHANGER	RF89A SUMMARY REPORT
2-0445-2	RWCU-RV-3 BOLTING ON RWCU-HX-1A	HEAT EXCHANGER	RF89A SUMMARY REPORT
2-0448	RRC-V-115 (NEW VALVE): INSTALL	PIPING	RF89A SUMMARY REPORT
2-0449	PIPE CAP FOR 0.75" MS(55)-4: REPLACE	PIPING	WORK COMPLETE NIS-2 NOT ISSUED
2-0450	RWCU-P-1A	PUMPS	WORK COMPLETE NIS-2 NOT ISSUED
2-0451	MS-RV-1C	RELIEF VALVE	WORK COMPLETE NIS-2 NOT ISSUED
2-0452	MS-RV-1D	RELIEF VALVE	RF89A SUMMARY REPORT
2-0453	MS-RV-5C	RELIEF VALVE	RF89A SUMMARY REPORT
2-0454	SUPPORT NO 11 FOR PI(1)-4S-X72a	SUPPORT	RF89A SUMMARY REPORT
2-0455	RHR-V-31B	VALVE	RF89A SUMMARY REPORT
2-0456	RHR-V-31A	VALVE	PLAN NOT ISSUED
2-0457	REWELD DEBRIS SCREEN ON PEN X-53	PENETRATION	RF89A SUMMARY REPORT
2-0458	MS-RV-3C TAIL PIPE ARC STRIKES NEAR X-53	PIPING	RF89A SUMMARY REPORT
2-0459	RHR/FPC BLIND FLANGE REPLACEMENT	PIPING	RF89A SUMMARY REPORT
2-0460	RHR-RO-10A FAB AND MOD OF FLANGES	PIPING	RF89A SUMMARY REPORT
2-0461	RHR-V-53A, RHR-RO-10A INSTALLATION	PIPING	RF89A SUMMARY REPORT
2-0464	INSTALL NEW RRC-V-20	PIPING	RF89A SUMMARY REPORT
2-0465	INSTALL DISC IN SPARE MS-RV	RELIEF VALVE	RF89A SUMMARY REPORT
2-0466	INSTALL DISC AND NOZZLE IN SPARE MS-RV	RELIEF VALVE	RF89A SUMMARY REPORT

ASME SECTION XI REPAIR/REPLACEMENT LISTING for WNP-2

PLAN, NWR, or PPM No.	COMPONENT IDENT. NUMBER and/or WORK DESCRIPTION	COMPONENT DESCRIPTION	NIS-2 REPORT IN SUMMARY REPORT
2-0467	INSTALL NEW VALVE RCIC-V-203	PIPING	PLAN NOT ISSUED
2-0469	REPLACE VALVES RRW-V-121 & 122	PIPING	WORK DEFERRED
2-0470	SW-V-92	VALVE	RF89A SUMMARY REPORT
2-0471	REPAIR WELD MS-529-13	PIPING	WORK COMPLETE HYDRO DEFERRED
2-0472	REPAIR WELD MS-530-12	PIPING	RF89A SUMMARY REPORT
2-0473	SLC-V-4A	VALVE	RF89A SUMMARY REPORT
2-0474	FDR-V-17	VALVE	RF89A SUMMARY REPORT
2-0475	CAP DRAIN LINES MS-529-13, MS-530-12	PIPING	WORK COMPLETE HYDRO DEFERRED
2-0476	MS-V-28A	VALVE	RF89A SUMMARY REPORT
2-0477	DRAIN LINE NEAR CSP-V-5 AND 7	PIPING	WORK COMPLETE NIS-2 NOT ISSUED
2-0478	REPLACE DISC IN SPARE MS-RV	RELIEF VALVE	RF89A SUMMARY REPORT
2-0479	DO-TK-1A AND 3A	PIPING	RF89A SUMMARY REPORT 2 FORMS
2-0480	DO-TK-1B AND 3B	PIPING	RF89A SUMMARY REPORT 2 FORMS
2-0481	DO-TK-2 AND 3C	PIPING	RF89A SUMMARY REPORT 2 FORMS
2-0482	DO-V-40A AND 40B	VALVE	RF89A SUMMARY REPORT
2-0487	MODIFY COMPONENT STANDARD SUPPORT HARDWARE	SUPPORTS	RF89A SUMMARY REPORT
2-0488-1	REPLACE SNUBBERS WITH STRUTS	SUPPORTS	RF89A SUMMARY REPORT
2-0488-2	REPLACE SNUBBERS WITH STRUTS	SUPPORTS	RF89A SUMMARY REPORT
2-0488-3	REPLACE SNUBBERS WITH STRUTS	SUPPORTS	RF89A SUMMARY REPORT
2-0499	MS-V-28A	VALVE	RF89A SUMMARY REPORT
2-0500	MS-V-28D	VALVE	RF89A SUMMARY REPORT
2-0501	MS-V-22A	VALVE	RF89A SUMMARY REPORT
2-0502	MS-V-22D	VALVE	RF89A SUMMARY REPORT
2-0504	MS-V-20	VALVE	RF89A SUMMARY REPORT
2-0505	SW SUPPORT LUGS	PIPING	RF89A SUMMARY REPORT

ASME SECTION XI REPAIR/REPLACEMENT LISTING for WNP-2

PLAN, NWR, or PPM No.	COMPONENT IDENT. NUMBER and/or WORK DESCRIPTION	COMPONENT DESCRIPTION	NIS-2 REPORT IN SUMMARY REPORT
2-0507	RWCU-HX-1A WELD REPAIR	HEAT EXCHANGER	VOID SEE PLAN 2-0510
2-0508	MODIFY VENT LINE HPCS-V-83, 84	PIPING	RF89A SUMMARY REPORT
2-0510	RWCU-HX-1A REPLACE DIAPHRAM	HEAT EXCHANGER	RF89A SUMMARY REPORT
2-0511	RHR-304 SUPPORT	SUPPORT	RF89A SUMMARY REPORT
2-0515	CSP-V-2	VALVE	PLAN NOT ISSUED
2-0516	PI(1)-4S-X72f & PI-EFC-X72f	TUBING/ VALVE	RF89A SUMMARY REPORT
2-0517	PI(1)-4S-X73c & PI-EFC-X73c	TUBING/ VALVE	RF89A SUMMARY REPORT
2-0519	RFW-V-65A	VALVE	PLAN NOT IMPLEMENTED
2-0521	PRESSURE TRANSDUCER MS-530-11	PIPING	RF89A SUMMARY REPORT
2-0522	RRC-1C-900N NUTS FOR U-BOLT	SUPPORT	RF89A SUMMARY REPORT
2-0527	PI(1)-ST-(1R-71)13 SUPPORT	TUBING	RF89A SUMMARY REPORT
2-0528	PI(1)-ST-MSLC-FT-3D	SUPPORT	RF89A SUMMARY REPORT
NWR AT2730	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5071	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5853	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5854	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5858	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5859	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5860	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5864	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5865	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5867	RPV	CRD	RF89A SUMMARY REPORT
NWR AT5868	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8010	RCIC-100(E)	COMPONENT SUPPORT	RF89A SUMMARY REPORT
NWR AT8011	VARIOUS COMPONENT SUPPORTS	COMPONENT SUPPORTS	RF89A SUMMARY REPORT 10 REPORTS

ASME SECTION XI REPAIR/REPLACEMENT LISTING for WNP-2

PLAN, NWR, or PPM No.	COMPONENT IDENT. NUMBER and/or WORK DESCRIPTION	COMPONENT DESCRIPTION	NIS-2 REPORT IN SUMMARY REPORT
NWR AT8156	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8375	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8379	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8382	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8383	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8389	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8392	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8393	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8394	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8396	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8402	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8407	RPV	CRD	RF89A SUMMARY REPORT
NWR AT8410	RPV	CRD	RF89A SUMMARY REPORT

TOTAL COUNT = 113

The following summarizes repairs/replacements that have been completed but the NIS-2 forms have not been issued.

PLAN NO.	DESCRIPTION	SUMMARY OF WORK
2-0421-2	FPC-V-146A	Installed valve bushing retainer tab
2-0421-3	FPC-V-146B	Installed valve bushing retainer tab
2-0449	3/4"MS(55)-4	Replaced pipe cap
2-0450	RWCU-P-1A	Closure plate for pump casing
2-0451	MS-RV-1C	Replaced disc insert and nozzle
2-0471	MS-529-13	Replaced pipe piece
2-0475	MS-529-13 MS-530-12	Capped drain lines
2-0477	Drain line near CSP-V-5 and 7	Reinstalled drain lines

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0279R1

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 8/9/87
   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) P.O. Box 600, Richland, WA
4. Identification of System Service Water (SW) System
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, 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
18SW(21)-2	BFS	N/A	N/A	N/A	1979	Replacement	Yes, Class 3
18SW(22)-2	BFS	N/A	N/A	N/A	1979	Replacement	Yes, Class 3

7. Description of Work:

Installed cross-tie connections between service water system Loops A and B. The installation work was performed as follows:

1. Cut existing pipe and installed new piping and fitting material.
2. Make required circumferential butt welds.
3. Performed MT examination on final circumferential butt welds. MT examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

BFS - BF Shaw Company

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0279R1

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure * psig, Test Temp. * °F
Component Design Pressure 309 psig, Temp. 150 °F

9. Remarks:

*Hydrostatic Test	Test Pressure	Test Temp.
Loop A welds	335 psig	69°F
Loop B welds	340 psig	67.8°F
*Nominal Operating Pressure		
Loop A flange connection.	210 psig	65°F
Loop B flange connection	212 psig	55°F

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

Date 8/9/89 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 4/11/89 to 8/7/89, 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 8/9/ 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0329R1

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 8-10-89
   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 Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W74 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
RHR-RV-25C	JCL	*	N/A	N/A	1979	Replacement	Yes, Class 2

7. Description of Work:

Installed test port for relief valve RHR-RV-25C. The modification work was performed as follows:

1) Machined grooves on relief valve discharge flange to accommodate elastomeric O-rings.
2) Drilled hole in the flange outer edge.
3) Installed male connector and made required weld.
4) Performed PT examination on the final weld. PT examination results acceptable.
5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
JEL - JE Lonergan Co.
*Serial Number 509258-76-1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0329R1

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ LLRT
Test Pressure 35.3 psig, Test Temp. 72.2 °F
Component Design Pressure 125 psig, Temp. 480 °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

K. Sowers 3/10/89

Date 8-10 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 5/4/87 to 3/20/89, 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 8-10 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0374

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 8/9/89
   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 Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III 19 *. Edition, * 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
RHR(1)-2B	WPPSS	**	N/A	N/A	1984	Replacement	Yes, Class 2
RHR-RV-1B	CV&G	***	N/A	N/A	1979	Replacement	Yes, Class 2

7. Description of Work:

Installed test port for relief valve RHR-RV-1B. The modification work was performed as follows:

1. Machined off the raised face on valve discharge flange.
2. Machined grooves on new pipe flange to accommodate elastomeric o-rings. Weld built up the flange beveled end. Performed PT examination on the beveled end and the weld built up area. PT examination results acceptable.
3. Cut existing pipe flange and installed new flange. Made circumferential butt weld. Performed PT and RT examination on the weld. PT and RT examination results acceptable.
4. 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.

Notes:
*1971W73 for RHR(1)-2B
**RHR(1)-2B-P1
CV&G - Crosby Valve and Gage Company
*1974S75 for RHR-RV-1B
***Serial Number N60597-00-0003

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0374

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 _____ Owner or Owner's Designee, Title Plant Technical Manager

K Evans 5/9/89

Date Aug 9 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 5/8/87 to 8/9/89, 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.

_____ Inspector's Signature Commissions 9556 W National Board, State, and Endorsements

Date 8/9 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0393

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 10-13-88
   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) P.O. Box 600, Richland, WA
4. Identification of System Reactor Water Cleanup (RWCU) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W71 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
RWCU-HX-1B	GE	223396	54361	N/A	1972	Repaired	Yes, Class 3

7. Description of Work:

Replaced diaphragm plate on RWCU-HX-1A channel head. The replacement work was performed as follows:

1) Removed existing diaphragm plate by grinding the seal weld.
2) Prepped the channel head facing.
3) Seal welded new diaphragm plate to the channel head.
4) Perform MT examination on the final seal weld. MT examination results acceptable.
5) Reinstalled flange cover and the bolting material.
6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0393

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 1215 psig, Test Temp. 515 °F
Component Design Pressure 1450 psig, Temp. 575 °F

9. Remarks:

None

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

Date October 13 19 88

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 7-10-87 to 10-13-88, 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.

Dan Hoggarth (Inspector's Signature) Commissions 9556 W (National Board, State, and Endorsements)

Date 10-13 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0399

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 12-2-88
   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 Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 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
FPC-V-122	A/D	3N-426	N/A	N/A	1975	Replacement	Yes, Class 3

7. Description of Work:

Modified tilting disc check valves by installing disc travel stop. The modification work was performed as follows:

1) Installed travel stop on valve disc counterweight.
2) Made required welds.
3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
A/D - Anchor/Darling Valve Co.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0399

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 105 psig, Test Temp. 75 °F
Component Design Pressure 275 psig, Temp. 100 °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

12/7/88

Date 12 - 2 19 88

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 12-4-87 to 11-29-88, 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 12-2 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0400

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 2/10/89
   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 Residual Heat Removal (RHR) 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
RHR(1)-4A	WPPSS	*	N/A	N/A	1983	Replacmeent	Yes, Class 1
RHR(1)-4B	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 1
RHR(1)-4C	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work:

Replaced valves RHR-V-709A, B and C with pipe caps. The replacement work was performed as follows:

1) Cut and removed valves RHR-V-709A, B and C from the lines.
2) Installed pipe cap on each one of the lines and made required socket welds.
3) Performed PT examinations on the final socket welds. PT examination results acceptable.

Notes:
*RHR(1)-4A-P1
*RHR(1)-4B-P1
*RHR(1)-4C-P1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0400

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 _____ (Owner or Owner's Designee,) Title Plant Technical Manager

2/9/89

Date 2-10 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 4/1/88 to 1/26/89, 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.

_____ (Inspector's Signature) Commissions 5470 W AVE-E (National Board, State, and Endorsements)

Date 2/10 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0402

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 1-27-89
   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 Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W74 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
RHR-RV-5	JEL	*	N/A	N/A	1979	Replacement	Yes, Class 2

7. Description of Work:

Installed test port for relief valve RHR-RV-5. The modification work was performed as follows:

1) Machined grooves on relief valve discharge flange to accommodate elastomeric O-rings.
2) Drilled hole in the flange outer edge.
3) Installed male connector and made required weld.
4) Performed PT examination on the final weld. PT examination results acceptable.
5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

JEL - JE Lonergan Co.
*Serial Number 509258-86-1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0402

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ LLRT
Test Pressure 35.5 psig, Test Temp. 72.2 °F
Component Design Pressure 125 psig, Temp. 480 °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

K Suiglo 1/26/89

Date 1-27 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 2-23-88 to 1-27-89, 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 1-27 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0408

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 10/17/88
   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) P.O. Box 600, Richland, WA
4. Identification of System Reactor Water Cleanup (RWCU) System (Loop B)
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, 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
RWCU(1)-4-P1	WPPSS	*	N/A	N/A	1983	Replacement	Yes,Class 3
RWCU(1)-4-P2	WPPSS	*	N/A	N/A	1983	Replacement	Yes,Class 3

7. Description of Work:

Replaced pump suction and discharge piping to accommodate installation of new RWCU-P-1B pump. The replacement work was performed as follows:

1) Installed new replacement pump.
2) Installed new replacement pump suction and discharge piping.
3) Installed new replacement valves.
4) Reinstalled existing valves.
5) Installed welded attachments for supports.
6) Installed pipe caps on valve leak off connections.
7) Made required socket welds, circumferential butt welds and attachment welds.
8) Performed NDE examinations on socket welds and circumferential butt welds. NDE examination results acceptable.
9) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
*Same as Name of Component

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0408

FORM NIS-2 (Back)

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

Test Pressure 1780-1850 psig, Test Temp. 76-79.8 °F

Component Design Pressure 1250/1450 psig, Temp. 575 °F

9. Remarks: See attached NPV-1 and N-1 Code Data Reports for the following Components:

EPN No.	Serial No.	EPN No.	Serial No.
RWCU-V-5B	56435	RWCU-V-780B	80021
RWCU-V-13B	62036	RWCU-V-781B	80026
RWCU-V-782B	80005	RWCU-V-784B	80024
RWCU-V-783B	80006	RWCU-P-1B	U12A86866MP
RWCU-V-785B	80010	RWCU-HX-1B	U12A86866HX
RWCU-V-779B	80020		

1250/1450 PSIG-Suction and discharge piping respectively.

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 Swift 10/17/88

Date 10-17 19 88

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 4-3-88 to 10-17-88, 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 10-17 19 88

PLAN NO. 2-0408.

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 Tennessee Valley Authority, 400 Commerce Ave., Knoxville, Tenn.
(Name and Address of Purchaser or Owner)

3. Location of Installation Hartsville Nuclear Plant, Hartsville, Tenn.
(Name and Address)

4. Pump or Valve Gate Valve. Nominal Inlet Size 4 (inch) Outlet Size 4 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	900#	56495 & 62036	N/A	435JAA3-002	1	N/A	1980
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

INFORMATION ONLY

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 2160 / 1400 (Pressure) psi 100 / 575 (Temperature) °F or Valve Pressure Class N/A (1)

7. Cold Working Pressure 2160 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate-Code 1T60	SA351 CF8M	Vulcan	
3N12			
	EPN NO	SERIAL NO.	
	RWCU-V-5B	56495	
	RWCU-V-13B	62036	
		Curtis Smith 8/5/88.	
(b) Forgings			
Body-Code 2V39	SA105	Jorgensen	
Bonnet-Code 3N10	SA105	EMJ-Seattle	
Neck-Code 4A29	SA105	Republic Steel	
Retainer-Code 3W30, 3A99	SA105	EMJ-Seattle & Forge Div.	

(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

[illegible] PUMPS OR VALVES*

As Required by the Provisions FORM NPV-1 (Back) [illegible]

	Mark No.	Material Spec. No.	Manufacturer	Remarks
1. Manufacturer				
2. Mat'l Bolting	N/A	Yellow Dichromate	[illegible]	
3.				
4.				
(1)				
(2)				
(3) (d) Other Parts				
Drain Stem Code		SA106-GR B	Guanex	
(3)	4F83			
(4)				
(5)				
(6)				
(7)				
(8)				

INFORMATION ONLY

8. Hydrostatic test 3250 psi. Disk Differential test pressure 2160 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974, Addenda Summer '75 (Date), Code Case No. N/A Date 8/26/80

Signed Nuclear Valve Dir., Borg Warner (N Certificate Holder) By J. McLennan

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, Calif. 91409

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

Design specifications certified by (1) Alex Walsenko

PE State CA Reg. No. C22,109

Stress analysis certified by (1) Liwei Chen

PE State CA Reg. No. 18581

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 8/29 19 80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 8/29 19 80. Commissions 1275-CA

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

PLAN No. 2-0408.
Rudolp Swift
8/5/88.

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

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

1. Fabricated by ~~Nuclear Valve Division of Borg Warner~~ 7500 Tyrone Ave., Van Nuys, CA 91409 (Name and Address of NPT Certificate Holder) Order No. 49758

2. Fabricated for Tennessee Valley Authoirty 400 Commerce Ave., Knoxville, Tennessee (Name and Address) Order No. 77K52-87381-1

3. Owner Hartsville Nuclear Plant 4. Location of Plant Hartsville, Tennessee

5. Piping System Identification _____ (Brief description of intended use, main coolant etc.)

(a) Drawing No. 80289 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No. N/A

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

Edition 1974, Addenda Date Summer '76, Case No. N/A

Remarks: Certificate Holders' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report Safe End P/N 80289, N-Code 4C08, S/N 12 (Name of Part — Item number, Certificate Holder's name, and identifying stamp)

INFORMATION ONLY

7. Shop Hydrostatic Test 3250 psi.

8. Description of piping inspected N-Code 4C08, SA312 Ty 304L, S/N 12, SCH. 80, (Include — mark no. — material spec. — nom. pipe size — schedule or thickness — length — fittings — flanges, etc.)

length 6.030, 1 piece each valve, Safe End P/N 80289, N-Code 4C08, S/N 12, -Final Assy Number 435JAA3-002, S/N 62036

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 8/26/80 Signed NVD of Borg Warner (NPT Certificate Holder) By J. McGrewick

Certificate of Authorization Expires 10-27-81 Certificate of Authorization No. N-1255

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 Lumbermen's Mutual Casualty of Long Grove, Ill. have inspected the piping described in this Data Report on 8/29 1980, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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 8/29, 1980. Commissions 1275 CA

(Inspector) 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".

(10/77)

This form (E00062) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPA-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*
As Required by the Provisions of FORM NPA-1 (back) Form, Section III, Div. 1.

1. Manufactured by [illegible] 19[illegible]
(Name of Manufacturer) (Name and Address of NPT Certificate Holder)

9. Description of Field Fabrication [illegible]

[illegible]

INFORMATION ONLY

[illegible]

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 _____ By _____
(NPT Certificate of Authorization) (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 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 NPT Certificate Holder has constructed this piping in accordance with the applicable portion 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 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.

PLAN NO. 2-0408

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. 3000 George Washington Way
(Name and Address of N Certificate Holder)
2. Manufactured for Washington Public Power Supply Systems, Richland, Washington
(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 Y Globe Valve. Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	80003 thru	N/A	76590-1	1	N/A	1983
(2)		80019					
(3)							
(4)							
(5)		EPN NO.		SERIAL NO			
(6)		RWCU-V-782B		80005			
(7)		RWCU-V-783B		80006			
(8)		RWCU-V-785B		80010			
(9)				Culdip Sup's			
(10)				8/5/88			

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

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 5F32	Stellite #6	Rex Precision	
(b) Forgings			
Body-Code 5E99	SA 105	Pacific Forge	

FOR INFORMATION ONLY

(1) For manually operated valves only.

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

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

BECHTEL

S/N 80003 THRU 80019

Quality Supb

FORM NPV-1 (Back)

8/1/85.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
Backseat-Code 5E84	SA 564 Ty 630	Jorgensen Steel	

FOR INSPECTION ONLY

FOR INFORMATION ONLY

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 7/26/83

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

Our ASME Certificate of Authorization No. N-1254 to use the N (N) symbol expires 10/27/84 (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 NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) Byron E. Leonard

PE State CA Reg. No. E123

(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 7/29 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 7/29 19 83

[signature] (Inspector)

Commissions 1275 CA. NB7669 (Nat'l Bd., State, Prov. and No.)

PLAN NO. 2-040B.

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 Washington Public Power Supply Systems, 3000 George Washington Way, Richland, Washington
(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 Y Globe Valve. Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	80020 thru 80027	N/A	76590-1	1	N/A	1983
(2)							
(3)							
(4)							
(5)	EPN NO	SERIAL NO					
(6)	RWCU-V-779B	80020					
(7)	RWCU-V-780B	80021					
(8)	RWCU-V-781B	80026					
(9)	RWCU-V-784B	80024					
(10)							

FOR INFORMATION ONLY

Rudolph Swob 8/5/88

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

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 5F32	Stellite #6	Rex Precision	
1T01			
(b) Forgings			
Body-Code 5E99	SA 105	Pacific Forge	

(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.

S/N 80020 THRU 80027
Outside Supply
8/5/88.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
Backseat-Code 5E84	SA 564 Tv 630	Jorgensen Steel	

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 8/31/83
Signed Nuclear Valve Div., Borg Warner (N Certificate Holder) by [signature]
Our ASME Certificate of Authorization No. N-1254 to use the N (N) symbol expires 10/27/84 (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 NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA

Design specifications certified by (1) David J. Murphy
PE State Washington Reg. No. 12542
Stress analysis certified by (1) Byron E. Leonard
PE State CA Reg. No. E123

(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 8/31 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 8/31 19 83

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

RWCU-P-1B
Rudip Sump
3/26/88.

PLAN NO. 2-0408
1-4

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

1. Manufactured and certified by HAYWARD TYLER LIMITED, 24 CRAWLEY GREEN ROAD, LUTON, BEDFORDSHIRE, ENGLAND, LU1 3LW
(name and address of N Certificate Holder)

2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS, 175 CURTNER AVENUE, SAN JOSE CALIFORNIA
(name and address of Purchaser or Owner)

3. Location of installation HANFORD 2, 3000 GEORGE WASHINGTON WAY, RICHLAND, WA 99352.
(name and address)

4. Model No., Series No., or Type GLANDLESS MOTOR PUMP U12A86866MP Drawing 424CO/645 424CO/631 EDI Rev. C A 12 CRN N/A

5. ASME Code Section III: 1983 (Edition) W84 (Addenda date) 3 (Class) N-217-1 (Code Case no.)

6. Pump or valve PUMP Nominal inlet size 5IN (in.) Outlet size 4IN (in.)

7. Material: Body SEE LIST NO1 Bonnet N/A Disk N/A Bolting SEE LIST NO2
COMPONENT SUPPORT SEE LIST NO3

(a) Cert. Holder's Serial No. OF PUMP	(b) Nat'l Board No. OF PUMP	(c) Body Serial No. OF PUMP	(d) Bonnet Serial No.	(e) Disk Serial No.
U12A86866	84	U12A86866	N/A	N/A.

FORM NPV-1 (back)

Mfr. Serial No. U1ZA86866

8. Remarks 1) INTERCONNECTING PIPEWORK IS IDENTIFIED BY BATCH NUMBER (SEE LIST NO1) 2) COMPONENT SUPPORTS ARE IDENTIFIED BY BATCH NUMBER (SEE LIST NO3)

9. Design conditions 1420 (pressure) psi 575 (temperature) °F or valve pressure class N/A (1)

10. Cold working pressure N/A psi at 100°F

11. Hydrostatic test 2130 psi Temp. 50 (MIN. TEST TEMP.) °F Disk differential test pressure N/A psi

CERTIFICATION OF DESIGN

Design Specification certified by L.S. RICHARDSON Prof. Eng. state CALIFORNIA Reg. No. M-11595
Design Report certified by R.U. McCRAE Prof. Eng. state ONTARIO Reg. No. 3012 3012

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.
N Certificate of Authorization No. N-2487 Expires MAY 29 ARC

Date NOV 16, 1987 Name HAYWARD TYLER LIMITED, (N Certificate Holder) Signed ALLYN THOMAS (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 ILLINOIS and employed by KEMPER GROUP of LONG GROVE have inspected the pump, or valve, described in this Data Report on Nov 16 19 87, 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 Nov 16 19 87.

(Inspector) CR MERETHAS Commissions NB # 9963 N and B (Nat'l Bd., (incl. endorsements) State, Prov. and No.)

(1) For manually operated valves only.

PLAN No. 2-0408

NAT'L BD No 8

1. Manufactured and certified by HAYWARD TYLER LIMITED, 24 CRAWLEY GREEN ROAD, LUTON BEDFORDSHIRE, ENGLAND, LU1 3LW
(name and address of N Certificate Holder)

2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS, 175 CURTNER AVENUE, SAN JOSE CALIFORNIA.
(name and address of Purchaser or Owner)

3. Location of installation HANFORD 2, 3000 GEORGE WASHINGTON WAY, RICHLAND, WA 99352
(name and address)

4. Model No., Series No., or Type GLANDLESS MOTOR PUMP U12A86866MP Drawing 42400/645 (E.D.I.) 42400/631 Rev. C A (I.Z.) CRN N/A

LINE NUMBER 7 LIST NUMBER 1

PRESSURE RETAINING PARTS.

DESCRIPTION	MATERIAL
FORGINGS	
PUMP CASE	SA 350 LF2
WELD NECK FLANGE 5" N.B.	SA 350 LF2
FLANGED NOZZLE 1/2" NB	SA 350 LF2
MOTOR CASE	SA 350 LF2
FLANGED NOZZLE 3/4" NB	SA 350 LF2
BEARING STOP PEG	SA 350 LF2
MOTOR COVER	SA 350 LF2
WELD NECK FLANGE 3/4" NB	SA 350 LF2 *
OTHER PARTS	
LONG RADIUS ELBOW	SA 420 WPL6
THERMOWELL	SA 479 316L
THERMOMETER POCKET	SA 479 316L
TERMINAL GLAND NUT	SA 479 316L
CONNECTING PIPE	SA 106 B *
BUTT WELDING ELBOW	SA 420 WPL6 *

* INTERCONNECTING PIPEWORK PUMP TO HEAT EXCHANGER IDENTIFIED BY BATCH NUMBER: 2/B017/3

DATE: Nov 16, 1989 NAME: HAYWARD TYLER LIMITED SIGNED: ALLEYN THOMAS Alleyn Thomas.

DATE: Nov. 16 '89 INSPECTOR: [signature]

COMMISSIONS: NB# 9968 N and B

PLAN No. 2-0408

NAT'L BD No 9

1. Manufactured and certified by HAYWARD TYLER LIMITED, 24 CRAWLEY GREEN ROAD, LUTON, BEDFORDSHIRE, ENGLAND, LU1 3JW
(name and address of N Certificate Holder)

2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS, 175 CURTNER AVENUE, SAN JOSE CALIFORNIA
(name and address of Purchaser or Owner)

3. Location of installation HANFORD 2, 3000 WASHINGTON WAY, RICHLAND, WA 99352
(name and address)

4. Model No., Series No., or Type GLANDLESS MOTOR PUMP U12A86B66MP Drawing 42400/645 42400/631 E.D.I. Rev. C A 12. CRN N/A

LINE NUMBER 7 LIST NUMBER 2

BOLTING

DESCRIPTION	SIZE	MATERIAL	QUANTITY
STUD	1 1/4"	SA 193 B16	20
BOLT	1 1/4"	SA 193 B16	8
NUT	1 1/4"	SA 194 GR7	28
STUD	1 1/8"	SA 193 B16	8
NUT	1 1/8"	SA 194 GR7	8
STUD	1"	SA 193 B16	20
NUT	1"	SA 194 GR7	20
STUD BOLT	3/4" x 4 3/4" LONG	SA 193 B7	8
BOLT	3/4" x 3 1/2" LONG	SA 193 B7	12
STUD	3/4" x 4 1/2" LONG	SA 193 B7	4
NUT	3/4"	SA 194 2H	32

Alleyn Thomas.

DATE : Nov 16, 1987 NAME : HAYWARD TYLER LIMITED SIGNED : ALLEYN THOMAS

DATE : Nov 16 '87 INSPECTOR : [signature]

COMMISSIONS : NB#9968 N and B

PLAN No. 2-0408

NAT'L. BD No 8

1. Manufactured and certified by HAYWARD TYLER LIMITED, 24 CRAWLEY GREEN ROAD, LUTON, BEDFORDSHIRE, ENGLAND LU1 3LW
(name and address of N Certificate Holder)

2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS, 175 CURTNER AVENUE, SAN JOSE CALIFORNIA.
(name and address of Purchaser or Owner)

3. Location of installation HANFORD 2, 3000 GEORGE WASHINGTON WAY, RICHLAND, WA 99352
(name and address)

4. Model No., Series No., or Type GLANDLESS MOTOR PUMP U12A86866MP Drawing 42400/645 42ACO/631 Rev. C A CRN N/A

LINE NUMBER 7 LIST NUMBER 3

COMPONENT SUPPORT PARTS

BATCH NUMBER	DESCRIPTION	MATERIAL
2/BX80/1	SUPPORT BEAM FABRICATION	
	BEAM	SA 106 GR B
	FLANGE	SA 515 GR 65
	SUPPORT WEB	SA 515 GR 65
	LIFTING LUG	SA 515 GR65
	LOCATION FLANGE	SA 350 LF2
2/CA17/1	SUPPORT BEAM END FLANGE	SA 350 LF2
2/CA19	BOLT 1¼" x 4¼" LONG 4ØFF	SA 193 GR B7
2/CA20	NUT - HEX 1¼" 4 ØFF	SA 194 GR 7
2/CA05	BOLT 1" x 2¾" LONG 4 ØFF.	SA 193 GR B7

DATE : NOV 16, 1987 NAME : HAYWARD TYLER LIMITED SIGNED : ALLEYN THOMAS

Alleyn Thomas.

DATE : Nov. 16 '87 INSPECTOR:

COMMISSIONS: NB#9968 N and B

PLAN No. 2-0408, Kemper

FEB - 8 1988 RWW-HX-1B

Rudolph Lynch 3/26/88

FORM N-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS

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

1. Manufactured and certified by HAYWARD TYLER LIMITED, 74 CRAWLEY GREEN ROAD LUTON, BEDFORDSHIRE, ENGLAND LU1 3JW
   (name and address of N Certificate Holder)
2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS 175 CURTNER AVENUE, SAN JOSE CALIFORNIA.
   (name and address of purchaser)
3. Location of installation HANFORD 2, 3000 GEORGE WASHINGTON WAY, RICHLAND, WA 99352
   (name and address)
4. Type: VERTICAL (name of vessel) HEAT EXCHANGER (form, jacketed, heat ex.) 112A868866HX: (Cert. Holder's serial no.) N/A (CRN) 42A00/63U.S.V.A EDZ REVIZ. (drawing no.) 110 (National Bd. no.) 1987 (year built)
5. ASME Code, Section III 1983 (edition) W84 (addenda date) N-217-1 (Code case no.) 31 (version)

Items 6–10 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

6. Shell: SA 350 LF2 (mat'l spec. no.) 70,000 PSI (tensile strength) 0.4375 IN (nom. thickness (in.)) 0.2241 IN (min. design thickness (in.)) 5.255 INS (dia. ID (ft & in.)) FROM WELD TO WELD 3FT 9.75 INS (length (overall) (ft & in.))
7. Seams: NONE (long.) N/A (INT'L) N/A (AT) N/A (eff. %) SINGLE BUTT WELDED (girth) NO (INT'L) FULL (AT) ONE (no. of courses)
8. Heads: N/A ((a) mat'l. spec. no.) N/A (tensile strength) N/A ((b) mat'l. spec. no.) N/A (tensile strength)

	Location (top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(b)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

If removable, bolts used N/A (mat'l. spec. no., size, quantity) Other fastening N/A (describe or attach sketch)

9. Jacket closure: N/A (Describe as spot & weld, bar, etc. If bar, give dimensions, describe or sketch)
10. Design pressure[1] 1420 (psi) at max. temp. 575 (°F). Min. pressure-test temp. 50 (°F) Pneu., hydro. or comb. test pressure 2130 (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SA 350 LF2 (stationary, mat'l spec. no.) 5.287 INS (dia. in. (subject to gross.)) 1.25 INS (thickness (in.)) WELDED (attachment (welded, bolted)) NONE (floating, mat'l. spec. no.) N/A (dia. (in.)) N/A (thickness (in.)) N/A (attachment)
12. Tubes: SA 213 TP 321 (mat'l. spec. no.) 0.375 IN (OD (in.)) 0.065 IN (thickness (inches or gage)) 64 (no.) STRAIGHT (type (straight or U))

Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

13. Shell: SA 350 LF2 (mat'l spec. no.) 70,000 PSI (tensile strength) 0.6875 IN (nom. thickness (in.)) 0.0831 IN (min. design thickness (in.)) 4.755 INS (dia. ID (ft & in.)) 4 IN (REMARK 4) (length (overall) (ft & in.))
14. Seams: NONE (long. (welded, dbl., single)) N/A (INT'L (yes or no)) N/A (AT) N/A (eff. %) N/A (girth) N/A (INT'L) N/A (AT) N/A (no. of courses)
15. Heads: SA350 LF2 ((a) mat'l. spec. no.) 70,000 PSI (tensile strength) N/A ((b) mat'l. spec. no.) N/A (tensile strength) N/A ((c) mat'l. spec. no.) N/A (tensile strength)

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a) Top, bottom, ends	1.251 INS	NONE	0.625 IN	NONE	NONE	NONE	3.75 INS	CONCAVE
(b) Channel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(c) Floating	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

If removable, bolts used EACH END STUD SA193 GR B7 5/8 W 8 6/8" NUT SA194 2H 5/8 W 8 6/8" (mat'l. spec. no., size, quantity) Other fastening NONE (describe or attach sketch)

16. Design pressure[1] 600 (psi) at 125 (°F). Min. pressure-test temp. 50 (°F) Pneu., hydro., or comb. test pressure 900 (psi)

[1] If postweld heat treated [2] List other internal or external pressure with component temperature when applicable.

FORM N-1 (back)

Mfr Serial No U12886866

17 Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	Quantity	Diameter	Type	Method Attached	Material	Thickness	Reinforcement Material	Location
INLET	ONE	3/4" ANSI 150 lb	FLANGED	WELDED	SA350LF2	0.375 IN	NONE	SHELL
OUTLET	ONE	3/4" ANSI 150 lb	FLANGED	WELDED	SA350LF2	0.375 IN	NONE	SHELL
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

18. Supports: Skirt NO (type or no.) Lugs NONE (quantity) Legs NONE (quantity) Other BRACKET (description) Attached SHELL WELDED (where & how)

19. Remarks: 1) HEAT EXCHANGER FOR REACTOR WATER CLEAN UP PUMP
2) ITEMS LINE Nº13 AND 15(a) ARE A SINGLE FORGING
3) ITEM LINE Nº6 HAS TWO FLANGED NOZZLES OF 3/4" DIA. SEE LINE Nº17.
4) LINE Nº13 OVERALL LENGTH OF CHANNELS IS WITHOUT CLADDING OF IN AND OUTLETS

CERTIFICATION OF DESIGN

Design specification certified by L.S. RICHARDSON Prof. Eng. state CALIFORNIA Reg. no. M-11595

Design report certified by R.U. McCRAE Prof. Eng. state ONTARIO Reg. no. 3013 3012

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules for construction of the ASME Code, Section III.

Certificate of Authorization No. N-2487 Expires MAY 29 1990

Date Nov 16, 1987 Name HAYWARD TYLER LIMITED (N Certificate Holder) Signed ALLAN THOMAS (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 ILLINOIS and employed by KEMPER GROUP of LONG GROVE have inspected the component described in this data report on _____, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component 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 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 Nov 16 '87 Signed [signature] (Authorized Inspector) R. HERCMANS Commissions NB #9968 N and B (NB #, State, Province, and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this nuclear vessel conforms to the rules of construction of the ASME Code, Section III.

N Certificate of Authorization No. _____ Expires _____

Date _____ Name _____ (N Certificate Holder) Signed _____ (representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of _____ and employed by _____ of _____ have compared the statements in this data report with the described component and state that parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me on _____ and that to the best of my knowledge and belief the Certificate Holder has constructed and assembled this component 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 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 _____ Signed _____ (Authorized Inspector) Commissions _____ (NB #, State, Province, and No.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0409

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 10/17/88
   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) P.O. Box 600, Richland, WA
4. Identification of System Reactor Water Cleanup (RWCU) System (Loop B)
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, 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
RWCU(1)-4-P1	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3
RWCU(1)-4-P2	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work:

Installed new supports and/or modified existing supports for Reactor Water Cleanup (RWCU) System. The supports were installed and/or modified to support RWCU system suction and discharge piping replaced under ASME Section XI Plan No. 2-0408.

Notes:

*Same as Name of Component

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-409

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

10/17/88

Date 10-17 19 88

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 4-6-88 to 10-12-88, 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 9553 W (National Board, State, and Endorsements)

Date 10-17 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0410

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 10/17/88
   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) P.O. Box 600, Richland, WA
4. Identification of System Reactor Water Cleanup (RWCU) System (Loop A)
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, 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
RWCU(1)-4-P1	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3
RWCU(1)-4-P2	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work:

Replaced pump suction and discharge piping to accommodate installation of new RWCU-P-1A pump. The replacement work was performed as follows:

1) Installed new replacement pump.
2) Installed new replacement pump suction and discharge piping.
3) Installed new replacement valves.
4) Reinstalled existing valves.
5) Installed welded attachments for supports.
6) Installed pipe caps on valve leak off connections.
7) Made required socket welds, circumferential butt welds and attachment welds.
8) Performed NDE examinations on socket welds and circumferential butt welds. NDE examination results acceptable.
9) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
*Same as Name of Component

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0410

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ _____
Test Pressure 1793-1797 psig, Test Temp. 79 °F
Component Design Pressure 1250/1450 psig, Temp. 575 °F

9. Remarks:

See attached NPV-1 and N-1 Code Data Reports for the following components.

EPN No.	Serial No.	EPN No.	Serial No.
RWCU-V-5A	51275	RWCU-V-779A	80022
RWCU-V-13A	51276	RWCU-V-780A	80023
RWCU-V-783A	80009	RWCU-V-785A	80027
RWCU-V-784A	80004	RWCU-P-1A	U12A86865MP
RWCU-V-781A	80007	RWCU-HX-1A	U12A86865HX
RWCU-V-782A	80008		

1250/1450 PSIG-Suction and discharge piping respectively.

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

10/17/88.

Date 10-17 19 88

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 4-16-88 to 10-13-88, 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 10-17 19 88

PLAN NO. 2-0410

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

1

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 Tennessee Valley Authority, 400 Commerce Ave., Knoxville, Tenn.
(Name and Address of Purchaser or Owner)

3. Location of Installation Hartsville Nuclear Plant, Hartsville, Tenn.
(Name and Address)

4. Pump or Valve Gate Valve Nominal Inlet Size 4 (inch) Outlet Size 4 (inch)

	(a) Model No. or Type	(b) N Certificate Holder's Series No.	(c) Canadian Serial No.	Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	900#	51275 &		N/A	435JAA3-002	1	N/A	1979
(2)	G33-P10C &	51276						
(3)								
(4)								
(5)								
(6)								
(7)								
(8)								
(9)								
(10)								

INFORMATION ONLY

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 2160 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class N/A (1)
1400 575

7. Cold Working Pressure 2160 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate-Code 1T27	ASME-SA351-GRCF8M	Waukesha Fdy.	
1U43			
	EPN NO	SERIAL NO.	
	RWCU-V-5A	51275	
	RWCU-V-13A	51276	Philip Engel 8/11/83
(b) Forgings			
Body-Code 3W72	ASME SA105	Jorgensen	
Bonnet-Code 3N10	ASME SA105	Jorgensen	
Retainer-Code 3A87	ASME SA105	Jorgensen	
Neck-Code 2N60 3W76	ASME SA105	Jorgensen	

(1) For manually operated valves only.

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
Drain Pipe-Code 3M40	ASME SA106 GR. B	Tubesales	

INFORMATION ONLY

8. Hydrostatic test 3250 psi. Disk Differential test pressure 2160 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974, Addenda Summer '76 (Date), Code Case No. N/A Date 10-23-79

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

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

CERTIFICATION OF DESIGN

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

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

Design specifications certified by (1) Alex Valsenko

PE State CA Reg. No. C22,109

Stress analysis certified by (1) Liwei Chen, 18581 California

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 10/23 19 79, 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 10/23 19 79.

(Inspector) Commissions 1275 CA.

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

PLAN NO. 2-0410

Guidip Supply 8/11/88

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

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

~~Nuclear Valve Division of Borg Warner~~

1. Fabricated by 7500 Tyrone Ave., Van Nuys, CA 91409 Order No.
(Name and Address of NPT Certificate Holder)

2. Fabricated for Tennessee Valley Authoirty 400 Commerce Ave., Knoxville, Tennessee Order No.
(Name and Address)

3. Owner Hartsville Nuclear Plant 4. Location of Plant Hartsville, Tennessee

5. Piping System Identification
(Brief description of intended use, main coolant etc.)

(a) Drawing No. 80289 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No.

(c) Other Data

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

Edition 1974 Addenda Date Summer '76 Case No. N/A

Remarks: Certificate Holders' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report Safe End Nipple P/N 80289, N-Code 4C08, S/N 2, 4
(Name of Part — Item number, Certificate Holder's name, and Identifying stamp)

7. Shop Hydrostatic Test 3250 psi.

8. Description of piping inspected N-Code 4C08, SA312 Type 304L, S/N 2, 4, SCH.80
(Include — mark no. — material spec. — nom. pipe size — schedule or thickness — length — fittings — flanges, etc.)
length 6.030, 1 piece each valve, Safe End Nipple P/N 80289, N-Code 4C08, S/N 2, 4; Final Assy number 435JAA3-002, S/N 51275 & 51276

INFORMATION ONLY

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 10-23-79 Signed NVD of Borg Warner By Carlo Guidotti
(NPT Certificate Holder)

Certificate of Authorization Expires 10-27-81 Certificate of Authorization No. N-1255

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 Lumbermen's Mutual Casualty of Long Grove, Ill. have inspected the piping described in this Data Report on 10/23 1979, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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 10/23 1979 Commissions 1275 CA.
(Inspector) 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".

(10/77) This form (E00062) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES
As Required by the Provisions of the ASME Code, Section III, Div. 1

FORM NPP-1 (back)

9. Description of Field Fabrication: [illegible] Order No. _____

(a) Drawing No. 20239 (b) Material Specification [illegible]

(c) National Board No. _____

10. Field Hydrostatic Test _____ psi.

INFORMATION ONLY

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 _____ (NPT Certificate of Authorization) 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 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 NPT Certificate Holder 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 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.

PLAN NO. 2-0410

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 Washington Public Power Supply Systems, 3000 George Washington Way, Richland, Washington
(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 Y Globe Valve. Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	80003 thru	N/A	76590-1	1	N/A	1983
(2)		80019					
(3)							
(4)		EPN NO		SERIAL NO			
(5)		RWCU-V-783A		80009			
(6)		RWCU-V-784A		80004			
(7)		RWCU-V-781A		80007			
(8)		RWCU-V-782A.		80008.			
(9)							
(10)							

Culdip Singh 8/4/88.

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

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 5F32	Stellite #6	Rex Precision	
(b) Forgings			
Body-Code 5E99	SA 105	Pacific Forge	

FOR INFORMATION ONLY

(1) For manually operated valves only.

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

BECHTEL

S/N 80003 THRU 80019

Quality Supply

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks 8/5/88.
(c) Bolting N/A			
(d) Other Parts			
Backseat-Code 5E84	SA 564 Ty 630	Jorgensen Steel	

FOR INFORMATION ONLY

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 7/20/83

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

Our ASME Certificate of Authorization No. N-1254 to use the N (N) symbol expires 10/27/84 (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 NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) Byron E. Leonard

PE State CA Reg. No. E123

(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 7/29 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 7/29 19 83

[signature] (Inspector) Commissions 1275 CA. NB7669 (Nat'l Bd., State, Prov. and No.)

PLAN NO. 2-0410

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 Washington Public Power Supply Systems, 3000 George Washington Way, Richland, Washington
(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 Y Globe Valve. Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	80020 thru 80027	N/A	76590-1	1	N/A	1983
(2)							
(3)							
(4)	EPN NO	SERIAL NO					
(5)	RWCU-V-779A	80022					
(6)	RWCU-V-780A	80023					
(7)	RWCU-V-785A	80027					
(8)							
(9)							
(10)							

FOR INFORMATION ONLY

Rudolph Suyo 8/11/85.

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

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 5F32	Stellite #6	Rex Precision	
1T01			
(b) Forgings			
Body-Code 5E99	SA 105	Pacific Forge	

(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.

S/N B0020 THRU B0027
Relief Supts
8/5/88.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
Backseat-Code 5E84	SA 564 Ty 630	Jorgensen Steel	

FOR INFORMATION ONLY

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 8/31/83

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

Our ASME Certificate of Authorization No. N-1254 to use the N (Kind) 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 NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) Byron E. Leonard

PE State CA Reg. No. E123

(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 8/31 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 8/31 19 83

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

PLAN No. 2-0410

RWCU-P-1A

Rudolph Swe's 3/26/88

846 JM

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

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

1. Manufactured and certified by HAYWARD TYLER LIMITED, 24 CRAWLEY GREEN ROAD, LUTON, BEDFORDSHIRE, ENGLAND, LU1 3LW
(name and address of N Certificate Holder)

2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS, 175 CURTNER AVENUE, SAN JOSE, CALIFORNIA
(name and address of Purchaser or Owner)

3. Location of Installation HANFORD 2, 3000 GEORGE WASHINGTON WAY, RICHLAND, WA 99352.
(name and address)

4. Model No., Series No., or Type GLANDLESS MOTOR PUMP U12A86865MP Drawing 42400/645 42400/631 E.D.I. Rev. C A 12 CRN N/A

5. ASME Code Section III: [redacted] Edition [redacted] Addenda date [redacted] Class N-217-1 Code Case no.

6. Pump or valve PUMP Nominal inlet size 5IN (in.) Outlet size 4IN (in.)

7. Material: Body SEE LIST Nº1 Bonnet N/A Disk N/A Bolting SEE LIST Nº 2
COMPONENT SUPPORT SEE LIST Nº3

(a) Cert. Holder's Serial No. of PUMP	(b) Nat'l Board No. of PUMP	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
[redacted]	[redacted]	U12A86865	N/A	N/A

FORM NPV-1 (back)

Mfr. Serial No. 132A66865

8. Remarks 1) INTERCONNECTING PIPEWORK IS IDENTIFIED BY BATCH NUMBER (SEE LIST No 1) 2) COMPONENT SUPPORTS ARE IDENTIFIED BY BATCH NUMBER (SEE LIST No 2)

9. Design conditions 1420 (pressure) psi 575 (temperature) °F or valve pressure class N/A (1)

10. Cold working pressure N/A psi at 100°F

11. Hydrostatic test 2130 psi Temp. 50 (MIN TEST TEMP) °F Disk differential test pressure N/A. psi

CERTIFICATION OF DESIGN

Design Specification certified by L.S. RICHARDSON Prof. Eng. state CALIFORNIA Reg. No. M-11595

Design Report certified by R.J. McCRAE Prof. Eng. state ONTARIO Reg. No. 3012 3012

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.

N Certificate of Authorization No. N-2487 Expires MAY 29 1990

Date Nov 16, 1982 Name HAYWARD TYLER LIMITED (N Certificate Holder) Signed ALLAN THOMAS (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 ILLINOIS and employed by KEMPER GROUP of LONG GROVE have inspected the pump, or valve, described in this Data Report on Nov. 16 19 87, 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 Nov. 16 1987.

(Inspector) R. MEREMANS Commissions NB # 9968 N and B (Nat'l Bd., (incl. endorsements) State, Prov. and No.)

(1) For manually operated valves only.

PLAN No. 2-0410

NAT'L BD No 7

1. Manufactured and certified by HAYWARD TYLER LIMITED, 24 CRAWLEY GREEN ROAD LUTON, BEDFORDSHIRE, ENGLAND, LU2 0QW
(name and address of N Certificate Holder)

2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS, 175 CURTNER AVENUE, SAN JOSE, CALIFORNIA.
(name and address of Purchaser or Owner)

3. Location of installation HANFORD 2, 3000 GEORGE WASHINGTON WAY, RICHLAND, WA 99352
(name and address)

4. Model No., Series No., or Type GLANDLESS MOTOR PUMP U12AB6B65MP Drawing 424CC1645 / 424CC1631 / E.D.I. Rev. C / A / 12 CRN N/A

LINE NUMBER 7 LIST NUMBER 1

PRESSURE RETAINING PARTS

DESCRIPTION	MATERIAL
FORGINGS	
PUMP CASE	SA 350 LF2
WELD NECK FLANGE 5" N.B.	SA 350 LF2
FLANGED NOZZLE 1/2" NB.	SA 350 LF2
MOTOR CASE	SA 350 LF2
FLANGED NOZZLE 3/4" NB	SA 350 LF2
BEARING STOP PEG	SA 350 LF2
MOTOR COVER	SA 350 LF2
WELD NECK FLANGE 3/4" NB	SA 350 LF2 *
OTHER PARTS	
LONG RADIUS ELBOW	SA 420 WPL6
THERMOWELL	SA 479 316L
THERMOMETER POCKET	SA 479 316L
TERMINAL GLAND NUT	SA 479 316L
CONNECTING PIPE	SA 106 B *
BUTT WELDING ELBOW	SA 420 WPL6 *

* INTERCONNECTING PIPEWORK PUMP TO HEAT EXCHANGER IDENTIFIED BY BATCH NUMBER. 2/80 17/1

DATE: Nov 16, 1987 NAME: HAYWARD TYLER LIMITED SIGNED: Allen Thomas
ALLEYN THOMAS

DATE: Nov. 16 '87 INSPECTOR: [illegible]

COMMISSIONS: NB # 9968 N and B

PLAN No. 2-0410

NAT'L BD No 7

1. Manufactured and certified by HAYWARD TYLER LIMITED, 24 CRAWLEY GREEN ROAD, LUTON, BEDFORDSHIRE, ENGLAND, LU1 3LW
(name and address of N Certificate Holder)

2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS, 175 CURTNER AVENUE, SAN JOSE CALIFORNIA
(name and address of Purchaser or Owner)

3. Location of installation HANFORD 2, 3000 GEORGE WASHINGTON WAY, RICHLAND, WA 99352
(name and address)

4. Model No., Series No., or Type GLANDLESS MOTOR PUMP U13A86865MP Drawing 424C01645 E.S.I. 424C01631 Rev. C A 12 CRN N/A

LINE NUMBER 7 LIST NUMBER 2

BOLTING

DESCRIPTION	SIZE	MATERIAL	QUANTITY
STUD	1 1/4"	SA 193 B16	20
BOLT	1 1/4"	SA 193 B16	8
NUT	1 1/4"	SA 194 GR7	28
STUD	1 1/8"	SA 193 B16	8
NUT	1 1/8"	SA 194 GR7	8
STUD	1"	SA 193 B16	20
NUT	1"	SA 194 GR7	20
STUD BOLT	3/4" x 4 3/4" LONG	SA 193 B7	8
BOLT	3/4" x 3 1/2" LONG	SA 193 B7	12
STUD	3/4" x 4 1/2" LONG	SA 193 B7	4
NUT	3/4"	SA 194 2H	32

Allegyn Thomas

DATE: Nov 16, 1987 NAME: HAYWARD TYLER LIMITED SIGNED: ALLEGYN THOMAS

DATE: Nov 16 '87 INSPECTOR: [signature]

COMMISSIONS: NB # 9968 N and B

PLAN NO. 2-0410

NAT'L BD No 7

1. Manufactured and certified by HAYWARD TYLER LIMITED, 24 CRAWLEY GREEN ROAD, LUTON, BEDFORDSHIRE, ENGLAND LU1 3LW
(name and address of N Certificate Holder)

2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS, 175 CURTNER AVENUE, SAN JOSE CALIFORNIA.
(name and address of Purchaser or Owner)

3. Location of installation HANFORD 2, 3000 GEORGE WASHINGTON WAY, RICHLAND, WA 99352.
(name and address)

4. Model No., Series No., or Type GLANDLESS MOTOR PUMP U12AB6B65MP Drawing 42400/645 42400/631 E.D.I Rev. C A 12. CRN N/A

LINE NUMBER 7 LIST NUMBER 3

COMPONENT SUPPORT PARTS

BATCH NUMBER	DESCRIPTION	MATERIAL
2/8X80/2	SUPPORT BEAM FABRICATION	
	BEAM	SA 106 GR B
	FLANGE	SA 515 GR 65
	SUPPORT WEB	SA 515 GR 65
	LIFTING LUG	SA 515 GR65
	LOCATION FLANGE	SA 350 LF2
2/CA17/2	SUPPORT BEAM END FLANGE	SA 350 LF2
2/CA19	BOLT 1¼" x 4¼" LONG 4 ØFF	SA 193 GR B7
2/CA20	NUT - HEX 1¼" 4 ØFF	SA 194 GR 7
2/CA05	BOLT 1" x 2¾" LONG 4 ØFF.	SA 193 GR B7

Alleyn Thomas

DATE: Nov 16, 1987 NAME: HAYWARD TYLER LIMITED SIGNED: ALLEYN THOMAS

DATE: Nov 16 '87 INSPECTOR: [signature]

COMMISSIONS: NB # 9918 N and B

RWCU-HX-1A PLAN No. 2-0410
Rudolph Gupta 3/26/88.

FORM N-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS

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

1. Manufactured and certified by HAYWARD TYLER LIMITED, 24 CRAWLEY GREEN ROAD LUTON BEDFORDSHIRE ENGLAND LU1 3LW
(name and address of N Certificate holder)

2. Manufactured for GENERAL ELECTRIC COMPANY, NUCLEAR ENERGY BUSINESS OPERATIONS, 175 CURTNER AVENUE, SAN JOSE, CALIFORNIA
(name and address of purchaser)

3. Location of installation HANFORD 2, 3000 GEORGE WASHINGTON WAY, RICHLAND, WA 99352
(name and address)

4. Type: VERTICAL (horz. or vert.) HEAT EXCHANGER (shell, tubular, heat ex.) [redacted] (manufacturer's serial no.) N/A (CRN) 424GG163 REV A (drawing no.) EDI REV 12 (National Board no.) 1987 (year built)

5. ASME Code, Section III [redacted] (edition) [redacted] (addenda date) N-217-1 (Code case no.) [redacted] (other data)

Items 6–10 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

6. Shell: SA 350 LF2 (mat'l. spec. no.) 70,000 PSI (tensile strength) 0.4375 IN (nom. thickness in.) 0.2241 IN (min. design thickness in.) 5.255 INS (dia. ID (ft & in.)) FROM WELD TO WELD 5FT 9.75 INS (length (overall) (ft & in.))

7. Seams: NONE (long.) N/A (HT') N/A (RT) N/A (eff. %) SINGLE BUTT WELDED (girth) NO (HT') FULL (RT) ONE (no. of courses)

8. Heads: N/A ((a) mat'l. spec. no.) N/A (tensile strength) N/A ((b) mat'l. spec. no.) N/A (tensile strength)

	Location (top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Ellipsoidal Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(b)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

If removable, bolts used N/A (mat'l. spec. no., size, quantity) Other fastening N/A (describe or attach sketch)

9. Jacket closure: N/A (Describe as edge & weld, bar, etc. If bar, give dimensions, describe or sketch)

10. Design pressure[2] 1420 (psi) at max. temp. 575 (°F). Min. pressure-test temp. 50 (°F) Pneu., hydro. or comb. test pressure 2130 (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SA 350 LF2 (stationary, mat'l. spec. no.) 5.287 INS (dia. (subject to press.)) 1.25 INS (thickness (in.)) WELDED (attachment (welded, bolted))
NONE (floating, mat'l. spec. no.) N/A (dia. (in.)) N/A (thickness (in.)) N/A (attachment)

12. Tubes: SA 213 TO 321 (mat'l. spec. no.) 0.375 IN (OD (in.)) 0.065 IN (thickness (inches or gage)) 64 (no.) STRAIGHT (type (straight or U))

Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

13. Shell: SA 350 LF2 (mat'l. spec. no.) 70 000 PSI (tensile strength) 0.6875 INS (nom. thickness (in.)) 0.0831 IN (min. design thickness (in.)) 4.755 INS (dia. ID (ft & in.)) 4 IN (QUARK 4) (length (overall) (ft & in.))

14. Seams: NONE (long. (welded, dbl., single)) N/A (HT' (yes or no)) N/A (RT) N/A (eff. %) N/A (girth) N/A (HT') N/A (RT) N/A (no. of courses)

15. Heads: SA350 LF2 ((a) mat'l. spec. no.) 70 000 PSI (tensile strength) N/A ((b) mat'l. spec. no.) N/A (tensile strength) N/A ((c) mat'l. spec. no.) N/A (tensile strength)

Location	Thickness	Crown Radius	Knuckle Radius	Ellipsoidal Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a) Top, bottom, ends	1.251 INS	NONE	0.625 INS	NONE	NONE	NONE	3.75 INS	CONCAVE
(b) Channel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(c) Floating	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

If removable, bolts used FAO END STUD SA193 GR B7 3/4 IN BOLT NUT SA194 2H 3/4 IN 8 OFF (mat'l. spec. no., size, quantity) Other fastening NONE (describe or attach sketch)

16. Design pressure[2] 600 (psi) at 125 (°F). Min. pressure-test temp. 50 (°F) Pneu., hydro., or comb. test pressure 900 (psi)

[1] If postweld heat treated. [2] Use other internal or external pressure with concurrent temperature when appropriate.

FORM N-1 (back)

Mfr Serial No U12886865

17. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, etc.)	Quantity	Size & Size	Type	How Attached	Material	Thickness	Reinforcement Material	Location
INLET	ONE	3/4 ANSI 300 lb	FLANGED	WELDED	SA336 GR F2	0.375 IN	NONE	SHELL
OUTLET	ONE	3/4 ANSI 300 lb	FLANGED	WELDED	SA336 GR F2	0.375 IN	NONE	SHELL
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

18. Supports: Skirt NO (type of row) Lugs NONE (quantity) Legs NONE (quantity) Other SADDLING BRACKET (description) Attached SHELL (where & how) WELDED

19. Remarks: 1) HEAT EXCHANGER FOR REACTOR WATER CLEAN UP PUMP
2) ITEMS LINE Nº13 AND 15(a) ARE A SINGLE FORGING.
3) ITEM LINE Nº6 HAS TWO FLANGED NOZZLES OF 3/4" DIA. SEE LINE Nº17
4) LINE Nº13 OVERALL LENGTH OF CHANNELS IS WITHOUT CLADDING OF IN AND OUTLETS

CERTIFICATION OF DESIGN

Design specification certified by L.S. RICHARDSON Prof. Eng. state CALIFORNIA Reg. no. M-11595

Design report certified by R.W. McCRAE Prof. Eng. state ONTARIO Reg. no. 3012 3012

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that the nuclear vessel conforms to the rules for construction of the ASME Code, Section III.

Certificate of Authorization No. N-2487 Expires MAY 29 1990

Date Nov 16, 1987 Name HOWARD TYLER LIMITED (N Certificate Holder) Signed ALLAN THOMAS (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 ILLINOIS and employed by KEMPER GROUP of LOMBARD GROVE have inspected the component described in this data report on _____, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component 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 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 Nov 16 '87 Signed [signature] (authorized inspector) R. HEACMAN S Commissions NB#4968 IY and B (NBIC 50 and endorsements, state or prov. and no.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this nuclear vessel conforms to the rules of construction of the ASME Code, Section III.

N Certificate of Authorization No. _____ Expires _____

Date _____ Name _____ (N Certificate Holder) Signed _____ (representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of _____ and employed by _____ of _____ have compared the statements in this data report with the described component and state that parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me on _____ and that to the best of my knowledge and belief the Certificate Holder has constructed and assembled this component 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 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 _____ Signed _____ (authorized inspector) Commissions _____ (NBIC 50 and endorsements, state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0411

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 10/17/88
   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) P.O. Box 600, Richland, WA
4. Identification of System Reactor Water Cleanup (RWCU) System (Loop A)
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, 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
RWCU(1)-4-P1	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3
RWCU(1)-4-P2	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work:

Installed new supports and/or modified existing supports for Reactor Water Cleanup (RWCU) System. The supports were installed and/or modified to support RWCU system suction and discharge piping replaced under ASME Section XI Plan No. 2-0410.

Notes:
*Same as Name of Component

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0411

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 _____ (Owner or Owner's Designee) Title Plant Technical Manager

10/13/88

Date 10-17 19 88

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 4-3-88 to 10-14-88, 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.

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

Date 10-17 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0412

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 8/9/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Reactor Recirculation Cooling (RRC) 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
RRC(51)-4	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work:
   Removed crud trap (radioactive hot spot) by cutting and removing 2" RRC(51)-4 from 4" RRC(51)-4 RPV drain line. The replacement work was performed as follows:

   1. Cut and removed existing 4" pipe.
   2. Beveled pipe ends on both the existing 4" pipe cut ends and new replacement pipe piece cut ends. Performed PT examination on the beveled ends. PT examination results acceptable.
   3. Installed new replacement pipe piece and made circumferential butt welds.
   4. Performed PT and RT examination on the final circumferential butt welds. PT and RT examination results acceptable.
   5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

*RRC(51)-4-P1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0412

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ _____
Test Pressure 1135 psig. Test Temp. 79 °F
Component Design Pressure 1250 psig. Temp. 575 °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 _____ (Owner or Owner's Designee.) Title Plant Technical Manager

Date Aug 9 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 4/14/89 to 8/4/89, 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.

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

Date 8/9 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0419

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 1/27/89
   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 Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W74 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
RHR-RV-25B	JEL	*	N/A	N/A	1982	Replacement	Yes, Class 2

7. Description of Work:

Installed test port for relief valve RHR-RV-25B. The modification work was performed as follows:

1) Machined grooves on relief valve discharge flange to accommodate elastomeric O-rings.
2) Drilled hole in the flange outer edge.
3) Installed male connector and made required weld.
4) Performed PT examination on the final weld. PT examination results acceptable.
5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
JEL - JE Lonergan Co.
*Serial Number 509258-75-1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0419

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ LLRT
Test Pressure 35.3 psig, Test Temp. 72 °F
Component Design Pressure 125 psig, Temp. 480 °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

KSiewert 1/26/89

Date 1-27 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 4-27-88 to 1-27-89, 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 1/27 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0420

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 8/9/89
   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 Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 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
RHR-V-23	A/D	IN-104	N/A	N/A	1975	Replacement	Yes, Class 1

7. Description of Work:

Replaced valve trim items for RHR-V-23 to convert the valve from isolation type to throttling type. The replacement work was performed as follows:

1. Removed existing valve disc and integral valve seat.
2. Performed PT examination on the valve seat prepped areas. PT examination results acceptable.
3. Installed new seat cage by welding. Performed PT examination on the final weld. PT examination results acceptable.
4. Installed new disc and reassembled the valve.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

A/D - Anchor/Darling Valve Company

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0420

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 952 psig, Test Temp. 82.9 °F
Component Design Pressure 2790 psig, Temp. 100 °F

9. Remarks:

See attached N-2 Code Data Report for the new disc.

Disc; Serial No. 1; Heat No. 8097400

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. Simons 8/3/89

Date Aug 3 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 2/28/89 to 8/3/89, 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 8/9/ 19 89

PLAN NO 2-0420
RHC-V-23
Cuddib Gwb
6/22/89

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. (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 99362-0968
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part 1 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. F05623 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat 8097400, SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Win '72, Case No. 1516-2 Class 1

3. Remarks: Conversion Part for 6"-900# Globe Valve, Drawing 2654-3 Rev. C.
(Brief description of service for which component was designed)

WPPSS Nuclear Project 2

WPPSS P.O. #093136, A/DV S.O. E-A601-1

No Disc Hydro Performed.

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

Date June 24 19 88 Signed Anchor/Darling Valve Co. By Leon D. S
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/89 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at

Stress analysis report on file at

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State ~~of~~ of Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 5-10 thru 6-24-88 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 6-24 19 88

Charles Young
Inspector's Signature
Charles Young

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

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

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0421-1

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 8/9/89
   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 Fuel Pool Cooling (FPC) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 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
FPC-V-140	A/D	3N788	N/A	N/A	1976	Replacement	Yes, Class 3

7. Description of Work:

Installed bushing retainer tab on Anchor/Darling tilting disc check valve. The installation work was performed as follows:

1. Fabricated bushing retainer tab.
2. Installed bushing retainer tab and made required welds.
3. Performed visual examination on the final welds. Visual examination results acceptable.
4. Performed pressure test on valve body to bonnet joint to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

A/D - Anchor/Darling Valve Company

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0421-1

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 88 psig, Test Temp. 85 °F
Component Design Pressure 275 psig, Temp. 100 °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

K Sawyer 5/1/89

Date [illegible] 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 4/18/88 to 7/18/89, 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 8/19 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0421-7

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 1/27/89
   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 High Pressure Core spray (HPCS) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 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
HPCS-V-28	A/D	3N397	N/A	N/A	1975	Replacement	Yes, Class 3

7. Description of Work:

Installed bushing retainer tab on Anchor/Darling tilting disc check valve. The installation work was performed as follows:

1) Fabricated bushing retainer tab.
2) Installed bushing retainer tab and made required welds.
3) Performed visual examination on the final welds. Visual examination results acceptable.
4) Performed pressure test on valve body to bonnet joint to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

A/D - Anchor/Darling Valve Co.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0421-7

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 56 psig, Test Temp. 70 °F
Component Design Pressure 275 psig, Temp. 100 °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

1/30/89

Date 1-27 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 4-19-88 to 1-27-89, 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 955 NW (National Board, State, and Endorsements)

Date 1/27 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0421-9

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 10-21-88
   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 Reactor Core Isolation Cooling (RCIC) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 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
RCIC-V-11	A/D	2N400	N/A	N/A	1975	Replacement	Yes, Class 2

7. Description of Work:

Installed bushing retainer tab on Anchor/Darlin. tilting disc check valve. The installation work was performed as follows:

1) Fabricated bushing retainer tab.
2) Installed bushing retainer tab and made required welds.
3) Performed visual examination on the final welds. Visual examination results acceptable.
4) Performed pressure test on valve body to bonnet joint to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
A/D - Anchor/Darling Valve Co.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0421-9

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 82 psig, Test Temp. 68 °F
Component Design Pressure 275 psig, Temp. 100 °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

10/19/88

Date 10-19 19 88

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 4-30-88 to 10-21-88, 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 10 21 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0421-10

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 10-21-88
   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 Reactor Core Isolation Cooling (RCIC) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 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
RCIC-V-30	A/D	2N399	N/A	N/A	1975	Replacement	Yes, Class 2

7. Description of Work:

Installed bushing retainer tab on Anchor/Darling tilting disc check valve. The installation work was performed as follows:

1) Fabricated bushing retainer tab.
2) Installed bushing retainer tab and made required welds.
3) Performed visual examination on the final welds. Visual examination results acceptable.
4) Performed pressure test on valve body to bonnet joint to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
A/D - Anchor/Darling Valve Co.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-421-10

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 76 psig, Test Temp. 94.8 °F
Component Design Pressure 275 psig, Temp. 100 °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

10/19/88

Date 10-19 19 88

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 4-26-88 to 10-21-88, 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 10-21 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0423

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 12-2-89
   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) System
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W74 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
CIA-RV-5A	JEL	*	N/A	N/A	1982	Replacement	Yes, Class 3

7. Description of Work:

Converted relief valve CIA-RV-5A from hard seat to soft seat by replacing valve parts. The replacement work was performed as follows:

1) Removed existing valve parts.
2) Installed new replacement valve parts.
3) Made required socket weld.
4) Set valve to new set pressure of 170± 5 PSIG.
5) Installed converted valve in the system.

Notes:

JEL - JE Lonergan Co.
*Serial No. 509258-101-1

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0423

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 _____ (Owner or Owner's Designee,) Title Plant Technical Manager

12/7/88

Date 12 - 2 19 88

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 5-2-88 to 11-29-88, 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.

_____ (Inspector's Signature) Commissions 9-EZ-W (National Board, State, and Endorsements)

Date 12-2 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0424

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 1/4/87
   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) System
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W74 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
CIA-RV-5B	JEL	*	N/A	N/A	1982	Replacement	Yes, Class 3

7. Description of Work:

Converted relief valve CIA-RV-5B from hard seat to soft seat by replacing valve parts. The replacement work was performed as follows:

1) Removed existing valve parts.
2) Installed new replacement valve parts.
3) Made required socket weld.
4) Set valve to new set pressure of 170± 5 PSIG.
5) Installed converted valve in the system.

Notes:

JEL - JE Lonergan Co.
*Serial No. 509258-102-1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0424

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

Date 1-3 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 MAY 2, 1988 to JAN. 4, 1989, 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-U National Board, State, and Endorsements

Date January 4 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0438

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 1/27/89
   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 Reactor Core Isolation Cooling (RCIC) 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, 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
RCIC(13)-4CL2	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work:

Replaced valve RCIC-V-752D. The replacement work was performed as follows:

1) Cut and removed existing valve.
2) Installed new valve.
3) Made required socket welds.
4) Performed PT examination on the final socket welds. PT examination results acceptable.

Notes:

*RCIC(13)-4CL2-P1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0438

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:

See attached NPV-1 Code Data Report for new valve.

EPN Number	Serial Number
RCIC-V-752D	28760

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

KSwab 1/22/89

Date 1-27 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 5-26-88 to 1-27-89, 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 1/27 19 89

PLAN NO. 2-0438

00139

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Ave., 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 — EPN NUMBER RCIC-V-752D — SERIAL NUMBER 28760

4. Location of Plant Richland, Washington 99352 — Rudolph Engb 11/18/88.

5. Pump or Valve Identification Nuclear Valve Div. P/N 76590-2, 3/4" Y Globe Valve, 1500#, CS

Serial Numbers 28753 thru 28757, 28759 thru 28777. (24 Valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 76590 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No. N/A

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

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

Edition 1974, Addenda Date Summer '75, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc - Code 1W10, 1W47, 1W95	Stellite #6	Rex Precision	
(b) Forgings			
Body - Code 1V46	SA 105	Chiang & Assoc.	
Backseat - Code 2D89	SA 564 Tv 630	Jorgensen Steel	

RECEIVED MAR 21 1992 RECEIVED QUALITY CONTROL BY:

WBGR 215 16344

*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)

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

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

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

Stress analysis report on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA 91409

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

Stress analysis report certified by William E. Hill (1) Prof. Eng. State CA Reg. No. 11338

(1) Signature not required. List name only.

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

Date March 16 19 78 Signed Nuclear Valve Division of Borg Warner (Manufacturer) By [signature]

Certificate of Authorization No. N-1254 expires October 27, 1978.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the equipment described in this Data Report on March 16 19 78, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date March 16 19 78

[signature] Commissions CA 1275

(Inspector) (National Board, State, Province and No.)

Manuel B. Diana

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0440

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 10-13-88
   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) P.O. Box 600, Richland, WA
4. Identification of System Reactor Core Isolation Cooling (RCIC) System
5. (a) Applicable Construction Code ASME Section III 1971 Edition, W72 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
RCIC-V-30	A/D	2N-399	N/A	N/A	1975	Repaired	Yes, Class 2

7. Description of Work:

Repaired arc strike on valve RCIC-V-30 cover (bonnet). The repair work as performed as follows:

1) Removed arc strike.
2) Prepared cavity for weld repair.
3) Performed PT examination on the cavity. PT examination results acceptable.
4) Built up the cavity by welding.
5) Blended the weld built up area with the adjacent base material.
6) Performed PT examination on the weld built up area. PT examination results acceptable.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0440

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 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

10/13/88

Date October 13 19 88

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 5-26-88 to 10-13-88, 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 10-13 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0443-1
2-0443-2
2-0443-3

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 9-10-89
   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 19 71 Edition, W73 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
MS(18)-2-4-P1	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3
MS(18)-2-1-P1	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3
MS(18)-2-17-P1	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work:

Replaced one (1) nut each for the following flanged joints:

0 Flanged joint for MS-V-37S, MS(18)-2-4-P1

0 Flanged joint for MS-V-38C, MS(18)-2-17-P1.

0 Flanged joint for MS-V-37J, MS(18)-2-1-P1

Notes:
*Same as Name of Component

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0443-1
2-0443-2
2-0443-3

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

5/10/89.

Date 8-10 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 5/31/88 to 8/10/89, 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 9556 W (National Board, State, and Endorsements)

Date 8-10 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0444

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 10-13-88
   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 Reactor Core Isolation Cooling (RCIC) 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, 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
RCIC(13)-4CL2	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work:

Replaced valve RCIC-V-54. The replacement work was performed as follows:

1) Cut and removed existing valve.
2) Installed new valve.
3) Made required socket welds.
4) Performed PT examination on the final socket welds. PT examination results acceptable.

Notes:
* Same as Name of Component

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0444

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:
See atached NPV-1 Code Data Report for new valve.

EPN No.	Serial No.
RCIC-V-54	75126

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

10/13/88

Date October 13 19 88

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 6-3-88 to 10-13-88, 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.

Dan Hoggatt (Inspector's Signature) Commissions 9556 W (National Board, State, and Endorsements)

Date 10-13 19 88

PLAN NO. 2-0444.

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 Y 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#	75126	N/A	78560	2	N/A	1982
(2)							
(3)							
(4)			NEW RCIC-V-54				
(5)			S/N 75126				
(6)							
(7)			Cindy Swek				
(8)			6/1/88.				
(9)							
(10)							

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

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

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

FOR INFORMATION ONLY

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 3H22	Stellite #6	Rex Precision	
(b) Forgings			
Body-Code 1V43	SA105	Kawaguchi	

(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

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FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
Backseat-Code 4L39	SA564-79 Ty 630	Republic/Jorgensen	

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

FOR INFORMATION ONLY

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda Summer 1975 (Date), Code Case No. N/A, Date February 7, 1982

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

Cur ASME Certificate of Authorization No. N-1254 to use the N (US) 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 N/A

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 2/3 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 1 / 12/3 19 82

(Inspector) Commissions 1275 CA.

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0445-1 2-0445-2

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 10-13-88
   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) P.O. Box 600, Richland, WA
4. Identification of System Reactor Water Cleanup (RWCU) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W71 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
RWCU-HX-1A	GE	223395	54361	N/A	1972	Replacement	Yes, Class 3
RWCU-HX-2A	GE	223399	54362	N/A	1972	Replacement	Yes, Class 3

7. Description of Work:

Replaced bolting material for relief valves RWCU-RV-2 and RWCU-RV-3 inlet flanged joints. Installed new studs and nuts for each relief valve inlet flanged joint.

RWCU-RV-2 inlet flanged joint for RWCU-HX-2A
RWCU-RV-3 inlet flanged joint for RWCU-HX-1A

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0445-1 2-0445-2

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

K Gruch 10/13/88

Date October 13 19 88

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 10-1-88 to 10-13-88, 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 9552 W (National Board, State, and Endorsements)

Date 10-13. 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0448

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 1/27/89
   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 Reactor Recirculation Cooling (RRC) 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, 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
RRC(51)-4	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work:

Installed new valve RRC-V-115. The installation work was performed as follows:

1) Cut pipe to the required length and beveled the pipe ends.
2) Performed PT examination on the beveled ends. PT examination results acceptable.
3) Cut and removed section of existing pipe to install new valve.
4) Installed new valve and made required socket welds and butt welds.
5) Performed PT examinations on final socket welds. PT examination results acceptable.
6) Performed PT and RT examinations on final butt welds. PT and RT examination results acceptable.

Notes:
*RRC(51)-4-P1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0448

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:
See attached NPV-1 Code Data Report for new valve.

EPN Number	Serial Number
RRC-V-115	72348

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 Swab 1/26/89

Date 1-27 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 6-9-88 to 1-27-89, 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 1-27 19 89

PLAN No. 2-0448 BOOK # 0 G6 3 6

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 Washington Public Power Supply System, Richland, Washington 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation Washington Public Power Supply System, Near SATSOP, Southeastern Grays Harbor County, 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)	1680#	72348 thru 72351	N/A	307DCA1-002	1	N/A	1981
(2)							
(3)							
(4)			EPN NUMBER			SERIAL NUMBER	
(5)							
(6)			RRC-V-11S			72348	
(7)							
(8)				Kulden Finch			
(9)						4/14/88.	
(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 2485 / 4032 (Pressure) psi 650. / 100 (Temperature) °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure 4032 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 4F90	Stellite #6	Rex Precision	
(b) Forgings			
Body-Code 3N24	SA 182 F 316	Compton Forge	
Bonnet-Code 4G91	SA 182 F 316	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.

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

FORM NPV-1 (Back)

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

9. Hydrostatic test 6050 psi. Disk Differential test pressure 4435 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 1976 (Date), Code Case No. N/A, Date 9-24-81

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

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

CERTIFICATION OF DESIGN

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

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

Design specifications certified by (1) Alwin C. Chen

PE State Washington Reg. No. 15619

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 9/25 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 9/25 1981

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0452

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 9/19/88
   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, Washington
4. Identification of System 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
MS-RV-1D	CV&G	*	N/A	N/A	1980	Replacement	Yes, Class 1

7. Description of Work:

Replaced disc insert for valve MS-RV-1D. The replacement work was performed as follows:

1. Removed disc insert, S/N N93185-37-0153, from spare main steam relief valve, S/N N63790-00-0122.
2. Installed disc insert in main steam relief valve MS-RV-1D.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
CV&G - Crosby Valve and Gage Company
* - Serial No. N63790-00-0050

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0452

FORM NIS-2 (Back)

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

Test Pressure 945 psig, Test Temp. Saturated °F

*Component Design Pressure 1175 psig, Temp. 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 (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 Eilich 9/19/88

Date 9-19 19 88

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 8/25/88 to 9/19/88, 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.

David L. Vance (Inspector's Signature) Commissions 7447-W (National Board, State, and Endorsements)

Date SEPT. 19 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0453

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 9/19/88
   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, Washington
4. Identification of System 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
MS-RV-5C	CV&G	*	N/A	N/A	1980	Replacement	Yes, Class 1

7. Description of Work:

Replaced disc insert and nozzle for valve MS-RV-5C. The replacement work was performed as follows:

1. Removed disc insert, S/N N93185-37-0156, and nozzle, S/N N93184-33-0072, from spare main steam relief valve, S/N N63790-00-124.
2. Installed disc insert and nozzle in main steam relief valve MS-RV-5C.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
CV&G - Crosby Valve and Gage Company
* - Serial No. N63790-00-0062

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0453

FORM NIS-2 (Back)

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

Test Pressure 964 psig, Test Temp. Saturated °F

*Component Design Pressure 1205 psig, Temp. 575 °F

9. Remarks:

None.

*Relief valve set pressure and rated temperatures.

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 9/19/88

Date 9-19 19 88

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 8/25/88 to 9/19/88, 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 19 SEPT. 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0454

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 9/19/88
   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, Washington
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
*	JCI	*	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work:

Installed missing nuts for U-bolt (Support No. 11) on line PI(1)-4S-X72a.

Notes:

*PI(1)-4S-X72a

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0454

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

K Sump 9/14/88

Date 9-19 19 88

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 8/31/88 to 9/19/88, 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 19 SEPT. 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0455

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 1/10/89
   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 Residual Heat Removal (RHR) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 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
RHR-V-31B	A/D	2N432	N/A	N/A	1975	Replacement	Yes, Class 2

7. Description of Work:

Installed stop pad on Anchor/Darling tilting disc check valve. The installation work was performed as follows:

1) Removed existing stop pad.
2) Welded new larger size stop pad on disc counter weight area.
3) Performed visual examination on the final weld. Visual examination results acceptable.
4) Performed pressure test on valve body to bonnet joint to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

A/D - Anchor/Darling Valve Co.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0455

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 290 psig, Test Temp. 78 °F
Component Design Pressure 720 psig, Temp. 100 °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

1/9/89

Date 1-10 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 8/31/88 to 1/5/89, 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 [illegible] (National Board, State, and Endorsements)

Date 1/10 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0457

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 8/9/89
   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 Vessel
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, S72 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
Penent X-53	PDM	12764	790	N/A	1976	Repaired	Yes, Class 2

7. Description of Work:

Reinstalled debris screen on penetration X-53 as follows:

1. Installed debris screen by welding.
2. Performed PT examination on the final welds. PT examination results acceptable.

Notes:

PDM - Pittsburg-DeMoines Steel Company

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0457

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 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

K Gwen 5/5/89

Date Aug 2 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 9/11/88 to 7/5/89, 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 8/9 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0458

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 9/19/88
   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, Washington
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(18)-2-7	WPPSS	*	N/A	N/A	1983	Repair	Yes, Class 3

7. Description of Work:

Removed arc strikes on main steam relief valve MS-RV-3C discharge line. The removal work was performed as follows:

1. Removed arc strikes by mechanical means.
2. Visually inspected the removal areas for wall thickness check. Wall thickness was acceptable.
3. Performed PT examination on the removal area. PT examination results acceptable.

Notes:

*MS(18)-2-7-P1

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

PLAN NO. 2-0458

F)RM NIS-2 (Back)

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

9. Remarks:

None

CE TIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not ap licable

Certificate Authorization No. Not ap licable Expiration Date Not applicable

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

Date 9-19 19 88

CERTIF ATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid c nmission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washing n and employed by Lumbermen's Mutual Casualty Co. of Illi ois have inspected the components described in this Owner's Report during the period 9/12/88 to 9/19/88, and state that to the best of my knowledge a d belief, the Owner has performed examinations and taken corrective measures described in this Owner's Repor n accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature Commissions 744T-W National Board, State, and Endorsements

Date 19 SEPT. 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0459

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 8/9/89
   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 Fuel Pool Cooling (FPC) 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
FPC(5)-2	WPPSS	*	N/A	N/A	1984	Replacement	Yes, Class 3

7. Description of Work:

Replaced existing blind flange in Fuel Pool Cooling (FPC) System. The replacement work was performed as follows:

1. Bored the blind flange to accept 3/4" pipe.
2. Installed new pipe piece and reinstalled the existing valve.
3. Made required socket welds.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
*FPC(5)-2-P1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0459

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 79 psig, Test Temp. N/R °F
Component Design Pressure 220/300 psig, Temp. 175 °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 _____ (Owner or Owner's Designee.) Title Plant Technical Manager

5/5/89

Date 8-7 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 12/16/88 to 8/4/89, 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.

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

Date 8/9 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0460

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 3/9/89
   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 Residual Heat Removal (RHR) 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, 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
RHR(1)-2A	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work:

Fabricated restricting orifice (RO) plate and modified flanges for RHR-RO-10A. The fabrication and modification work was performed as follows:

1. Fabricated restricting orifice (RO) plate to the design requirements.
2. Modified (counterbored) the flanges to the design requirements.
3. Performed PT examination on accessible machined surfaces of the counterbore. PT examination results acceptable.

Note: Fabricated restricting orifice (RO) plate and modified flanges were installed under ASME Section XI Plan No. 2-0461.

Notes:

*RHR(1)-2A-P1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0460

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

Date 8-7 19 88

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 12/22/88 to 7/18/89, 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 8/9 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0461

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 8/18/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 3
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) P.O. Box 600, Richland, WA
4. Identification of System Residual Heat Removal (RHR) 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, 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
RHR(1)-2A	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 2
RHR(1)-4A	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work:

Replaced existing valve RHR-V-53A and installed restricting orifice (RO) plate RHR-RO-10A. The replacement work was performed as follows:

A. RHR-V-53A

1. Cut and removed existing valve.
2. Beveled and counterbored pipe cut ends.
3. Performed PT examination on the beveled and counterbored pipe ends. PT examination results acceptable.
4. Installed new replacement valve and made required circumferential butt welds.
5. Performed PT and RT examinations on the final circumferential butt welds. PT and RT examination results acceptable. Except for unacceptable RT indications in weld XI-3. These unacceptable indications were removed and the cavities were weld repaired. Weld repaired areas were reexamined by RT. RT examination results acceptable.
6. Performed PT and UT examinations on the final circumferential butt welds for Inservice Inspection (ISI). PT and UT examination results acceptable.

Notes:
*RHR(1)-2A-PI
*RHR(1)-4A-PI

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0461

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:

See attached NPV-1 Code Data Reports for the following:

Valve EPN No.	Valve Serial No.
RHR-V-53A	E6330-2-2
RHR-V-638	28713

*See Sheet 3 of 3

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 R L Kaunas (Owner or Owner's Designee,) Title Plant Technical Manager

K Swyb 7/18/89

Date Aug 18 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 2/9/89 to 8/18/89, 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.

Dan Hoggard (Inspector's Signature) Commissions 9556 (W) (National Board, State, and Endorsements)

Date 8/18 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0461

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
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 2 of 3
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) P.O. Box 600, Richland, WA
4. Identification of System Residual Heat Removal (RHR) 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, W80 Addenda, N308 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components
7. Description of Work (continued from Sheet 1)

7. Performed VT-3 visual examination on valve accessible internal surfaces. VT-3 visual examination results acceptable.
8. Performed VT-1 visual examinations on valve body to bonnet bolting material. VT-1 visual examination results acceptable.
9. Capped valve vent and leak off connections by welding caps.
10. Performed PT examination on final socket welds. PT examination results acceptable.
11. Installed new material and new valve for drain connection for RHR-V-53A.
12. Made required socket welds.
13. Performed PT examination on the final socket welds. PT examination results acceptable.

B. RHR-RO-10A

1. Cut piping to install flanges for RHR-RO-10A.
2. Beveled and counterbored pipe cut ends.
3. Performed PT examination on the beveled and counterbored pipe ends. PT examination results acceptable.
4. Installed new flanges and made required circumferential butt welds.
5. Performed RT examination on the final circumferential butt welds. RT examination results acceptable.
6. Performed PT and UT examination on the final circumferential butt welds for Inservice Inspections (ISI). PT and UT examination results acceptable.
7. Installed restricting orifice (RO) plate and the bolting material.

Note: Restricting orifice (RO) plate was fabricated and flanges were modified under ASME Section XI Plan No. 2-0460.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0461

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
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 3 of 3
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) P.O. Box 600, Richland, WA
4. Identification of System Residual Heat Removal (RHR) 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, W80
   Addenda, N308 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components

8. **Tests Conducted:** (continued from Sheet 1)

A. ASME Section III, Code Class 1 welds, RHR(1)-4A.

Performed hydrostatic test to confirm pressure boundary integrity. No evidence of leakage during hydrostatic test.

Test Pressure: 1390 psig
Test Temperature: 88°F
Design Pressure: 1550 psig
Design Temperature: 575°F

B. ASME Section III, Code Class 2 welds, and RHR-RO-10A flange joint, RHR(1)-2A.

Performed hydrostatic test to confirm pressure boundary integrity. No evidence of leakage during hydrostatic test.

Test Pressure: 605 psig
Test Temperature: 88°F
Design Pressure: 500 psig
Design Temperature: 480°F

Notes:

Anchor/Darling
Valve Company WILLIAMSPORT, PA 17701

PLAN NO. 2-0461
RHR-V-53A
Leland Snyder 7/7/89. 10/4/88

FORM QAS-14-1 SUPPLEMENTAL DATA REPORT FOR NUCLEAR VALVES OR PARTS

1. Work performed by Anchor/Darling Valve Company E-A564 (Shop Order No.)
701 First Street, Williamsport, PA 17701

2. Owner Washington Public Power Supply System, P.O. Box 968, Richland, WA 99352-0968 (Name and Address)

3. Name of Nuclear Power Plant WPPSS, North Power Plant Loop

4. Address of Nuclear Power Plant Richland, WA 99352

5. a: Identification of Component Repaired or Replacement Component 12"-778#-FW Gate Valve
b: Name of Manufacturer (If different from Line 1) N/A
c: Identifying Nos. E6330-2-2 (Mfr.'s Serial No.) N/A (Nat'l Bd. No.) N/A (Other) 1981 (Year Built)

6. Applicable Edition of Section III of ASME Code 19 74 Addenda Summer 1976 Code Case 1516-2,1567,1677, 1535-2,1773

7. Description of Work The subject valve was disassembled and cleaned, part heat and (Use of additional sheet(s) or sketch(es) is acceptable if properly identified)
serial numbers were verified. Valve was re-assembled using a new stem, disc, packing, bonnet gasket, bonnet nuts and adapter plate on the yoke. Bonnet and yoke bolting torqued in accordance with TA-108 Rev. B. Valve was hydrostatically body & seat tested. After testing service packing was installed. Design specification certified by David M. Bosi, Reg. #20941, State of Washington. Design Report certified by Mark D. Cowell, Reg. #PE032082-E, State of Pennsylvania. Valve Drawing No. 93-15823 R/-. WPPSS design condition 1550 psig at 575°F.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair or replacement conforms to Section III of the ASME Code. Signed Leon D. Snyder (Authorized Representative of Repair Organization) Q.A. Engineer (Title)
Leon D. Snyder
10-4-, 19 88. (Date) Our ASME Certificate of Authorization No. N1712 to use the N symbol expires 4/15/89.

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, employed by Commercial Union Insurance Company of Boston, Mass. have inspected the repair or replacement described in this Report on 10-4, 19 88 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with Section III of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-4-88 Charles Young (Inspector) Commissions Pennsylvania-2392 (State or Providence, Nat'l Board)
Charles Young

Form QAS-14-1, Rev. -

PLBN NO. 2-0461

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

RHR-V-53A

Kuldip Gupta 7/7/88

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

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

2. Identification-Certificate Holder's Serial No. of Part U4032 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D8903 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, SA352-LCB, Heat No. T9632

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date Sum '76, Case No. 1516-2,1567,1677,1773 1535-2 Class 1

3. Remarks: Disc for 12"-778#-FW Valve, Drawing 93-15823 R/-, Serial No. E6330-2-2
(Brief description of service for which component was designed)

WPPSS North Power Plant Loop

WPPSS P.O. 090172, A/DV S.O. E-A564-19

Disc Assembled in Valve, Hydro and Performance Test conducted.

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

Date 10-4- 19 88 Signed Anchor/Darling Valve Co. By Leon D. Sy
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/89 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 ~~XXXXXXXX~~ 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 7-26-88 thru 10-4-88 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 10-4 19 88

Charles Young Commissions Pennsylvania 2392
Charles Young, 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 referred to in item 3, "Remarks".

VK Gross 12/4/88

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

PLAN NO. 2-0461. 9-1 -

RHR-V-53A

Kuldip Gupta 7/2/89

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

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

1. Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and Address of Manufacturer)

2. Manufactured for General Electric Co., 175 Curtner Ave., San Jose, CA 95125
(Name and Address of Purchaser or Owner)

3. Location of Installation Blackfox Station, Inola, Oklahoma 74036
(Name and Address)

4. Pump or Valve Valve. Nominal Inlet Size 12" (inch) Outlet Size 12"

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Gate	E-6330-2-2	N/A	93-14883 R/L	1	N/A	1981
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. HIGH PRESSURE CORE SPRAY
(Brief description of service for which equipment was designed)

6. Design Conditions 1575 (Pressure) psi 575 (Temperature) °F or Valve Pressure Class N/A (1)

7. Cold Working Pressure 1668 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT-F9685 S/N-R8406	SA352-LCB	Quaker Alloy Casting Co.	
Bonnet HT-F9673 S/N-R8468	SA352-LCB	Quaker Alloy Casting Co.	
Disc HT-B9386 S/N-R8498	SA352-LCB	Quaker Alloy Casting Co.	
(b) Forgings			
Drain Conn. HT-631827	SA350-LF2	Cann & Saul Steel Co.	
Vent Conn. HT-631827	SA350-LF2	Cann & Saul Steel Co.	
L.O. Conn. HT-631827	SA350-LF2	Cann & Saul Steel Co.	W.J.K. 6/1/81

(1) For manually operated valves only.

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

(1/76) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

PLAN No. 2-0461 9-2
RHR-V-53A
Pulldp Supt
7/7/85.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Bonnet Studs HT-285004	SA193-B7	R.E.C. Corp.	
Bonnet Nuts HT-576H1074	SA194-7	Vitco Nuclear Products, Inc.	
(d) Other Parts			
N/A			

9. Hydrostatic test 2525 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this ~~pump or~~ valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974 Addenda Summer 1976 (Date), Code Case No. 1516-2, 1535-2, 1567, 1677, 1773. Date 5/18/81

Signed Anchor/Darling Valve Co. (Manufacturer) by L.B. Snyder

Our ASME Certificate of Authorization No. N1712 to use the N (N) (NPV) symbol expires 4/15/83 (Date).

CERTIFICATION OF DESIGN

Design information on file at General Electric Co., 175 Curtner Ave., San Jose, CA 95125

Stress analysis report (Class 1 only) on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Design specifications certified by (1) C.B. Johnson

PE State CA Reg. No. M13852

Stress analysis certified by (1) Robert D. Burns

PE State MS Reg. No. 25401

(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 Pennsylvania and employed by Commercial Union Ins. Co of Boston, Mass. have inspected the ~~pump or~~ valve, described in this Data Report on 12-9-80 thru 5-20 19 81 and state that to the best of my knowledge and belief, the Manufacturer has constructed this ~~pump or~~ valve, in accordance with the ASME Code, Section III.

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

Date 5-20 19 81

Russell E. Montgomery (Inspector)

Commissions Pennsylvania NC972 (Nat'l Bd., State, Prov. and No.)

GA-EE
W.J.K.
6/1/81

PLAN NO. 2-0461

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

As Required by the Provisions of the ASME Code Rules

0C123

1. Manufactured by Nuclear Valve Division of Borg Warner; 7500 Tyrone Ave., 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 RHR-V-638, S/N 28713

4. Location of Plant Richland, Washington 99352 Rudolph Smith 1/29/89

5. Pump or Valve Identification Nuclear Valve Div. P/N 76590-2, 3/4 Inch Y Globe Valve, CS, 1500=
Serial Numbers 28694 thru 28718 (25 Valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 76590-2 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No. N/A

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

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

Edition 1974, Addenda Date Summer '75, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings 1W10			
Disc - Code 1W95, 1W47	Stellite #6 Per NMS 71043	Rex Precision	
(b) Forgings			
Body - Code 1W46	SA 105	George Chiang	
Backseat - Code 2D89	SA564 Ty 630	Jorgensen Steel	

REVIEWED MAR 15 1982 BECHTEL QUALITY CONTROL BY: CR

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

PLAN NO. 2-0461
RHR-V-63B, S/N 28713.
Rudip Sup's
1/29/8

FORM NPV-1 (back)

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

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409
Stress analysis report on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA 91409
Design specifications certified by David J. Murphy (1) Prof. Eng. State Wash. Reg. No. 12542
Stress analysis report certified by William E. Hill (1) Prof. Eng. State CA Reg. No. 12333
(1) Signature not required. List name only.

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

Date March 9 19 78 Signed Nuclear Valve Division of Borg Warner (Manufacturer) By [signature]

Certificate of Authorization No. N-1254 expires October 27, 1978.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the equipment described in this Data Report on March 9 19 78, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date March 9 19 78

[signature] Commissions CA-1275
(Inspector) (National Board, State, Province and No.)
Manuel B. Diana

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0464

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 8/9/89
   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 Reactor Recirculation Cooling (RRC) 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
RRC(51)-4	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work:

Replaced existing valve RRC-V-20 and installed test connection. The replacement work was performed as follows:

1. Cut and removed existing valve RRC-V-20 and associated piping.
2. Installed new replacement valves, piping and fitting material.
3. Made required socket welds.
4. Performed PT examination on the final socket welds. PT examination results acceptable.
5. Installed new support.

Notes:

*RRC(51)-4-P1

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0464

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:

See attached NPV-1 Code Data Report for the following valves:

EPN No.	Serial No.
RRC-V-20	2
RRC-V-915	71424
RRC-V-916	25455

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 _____ (Owner or Owner's Designee.) Title Plant Technical Manager

Date 9-5 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 4/13/89 to 8/5/89, 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.

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

Date 8/9 19 89

PLAN NO. 2-0464
ERC-V-20, S/N 2
Culdip Gupta
6/14/89.

*S/N 2 and 4 Upgraded
Revised

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

1. Manufactured and certified by Target Rock Corporation, 1966E Broadhollow Rd., Farmingdale NY 11735
(name and address of N Certificate Holder)
2. Manufactured for Washington Public Supply System, Richland, Washington
(name and address of Purchaser or Owner)
3. Location of installation Plant 2 Richland, Washington
(name and address)
4. Model No., Series No., or Type *86Q-001-1 86Q-001 Drawing 1032110-7 Rev. C CRN N/A
5. ASME Code Section III: 1980 (Edition) W81 (Addenda date) 1 (Class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1 (in.) Outlet size 1 (in.)
7. Material: Body SA 182 F316L Bonnet SA479 316 Disk SA564 630 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
1	N/A	4816A	3013	1348
* 2	N/A	4799A	3003	1399
3	N/A	4839A	3010	1391
* 4	N/A	4841A	3004	1397
5	N/A	4851A	2984	1394
6	N/A	4815A	3009	1365

Reviewed, QA Supervisor 4/23/89
For E. Bajada, Q.A. Manager, Date

W. A. Roland, ANI 4/25/89
W. A. Roland, ANI Date

*Supplemental information in the 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.

(6/85) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

PLAN NO. 2-0464
LRC-V-20, S/N 2
Culdip 6/1

FORM NPV-1 (back)

Mfr. Serial No. See Front

8. Remarks Indicator Tube- SA-479 316, S/N's- 3138,3140,3165,3168,3210,3164

Respectively

9. Design conditions 45 (pressure) * 1550 psi psi 340 (temperature) * 575°F °F or valve pressure class 900 * 1500 (1)

10. Cold working pressure 1800 * 3000 psi at 100°F

11. Hydrostatic test 2700 * 4500 psi psi Temp. N/A °F Disk differential test pressure 1980 * 3300 psi psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Bosi Prof. Eng. state Washington Reg. No. 20941
Design Report certified by Martin Goldstone Prof. Eng. state New York Reg. No. 31940

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.

N Certificate of Authorization No. 1947 Expires 12-9-86

Date 4-30-86 Name Target Rock Corporation (N Certificate Holder) Signed (representative)
R. 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 Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 4/30 19 86, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 4/30 19 86

William M. Roland (Inspector)

NEW YORK STATE COMMISSION NO. 2288

Commissions ALSO COMMISSIONED IN Penn., Ohio & Conn. (Nat'l Bd., (incl. endorsements) State, Prov. and No.)

(1) For manually operated valves only.

PLAN NO. 2-0464.

BOOK # 0 0362

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 Y Globe, Nominal Inlet Size 3/4 (inch) Outlet Size -/- (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)	15004	71414 thru 71438	N/A	76570	I	N/A	1981
(2)							
(3)							
(4)							
(5)			RRC-V-915, S/N 71424				
(6)							
(7)			Buildup Grp 5				
(8)							
(9)			5/19/89				
(10)							

5. The valves are designed to handle a fluid media which includes steam, water condensate, borated water, etc., associated with a BWR and PWR. 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 4V20	Colmony #4	Rex Precision	
(b) Forgings			
Body-Code 4R55	SA182 F316	Kawaguchi	

(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 (500037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

WBG R 215-15025

2 1 2 9 7 1 7 9 3

PLAN No. 2-0464.

BOOK # 0 G362

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
		RRC-V-915, S/N 71424	
		Cutaway Sup's	
		6/19/87.	
(d) Other Parts			
Backseat-Code 4H70	SA 564 TY 630	Republic/Jorgensen	
4J86		Armco/Jorgensen	

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 1974.
Addenda Summer '75 (Date). Code Case No. N/A Date [illegible]
Signed Nuclear Valve Div., Borg Warner (N Certificate Holder) [signature]
Our ASME Certificate of Authorization No. N-1254 to use the N (stamp) symbol expires 10/27/81 (Date)

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409
Stress analysis report (Class 1 only) on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409
Design specifications certified by (1) David J. Murphy
PE State Washington Reg. No. 12543
Stress analysis certified by (1) David A. Vurangian
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 Luyberman's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 7/8 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 7/8 19 81
(Inspector) Commissions 1275 CA.
(Nat'l Bd., State, Prov. and No.)

2 1 2 9 / 0 / 3 4

PLAN No. 2-0464
RRC-V-916, S/N 25455
Buildup Sup's
6/19/89.

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 [illegible] Van Nuys, CA (Name & Address of Manufacturer) Order No. [illegible]

2. Manufactured for Bovee & Crail/G.E.R.I. P.O. Box 1040, Richland, Washington 99352 (Name and Address) Order No. [illegible]

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/N 76570-1, 3/4 Inch Y Globe Valve, SS, 15004

Serial Numbers 25454 thru 25458 (5 Valves)

(Brief description of service for which equipment was designed)

(a) Drawing No. 76570- Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No.

0B617

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

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

Edition 1971, Addenda Date Winter 1973, Case No.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc - Code 1P85	Stellite #6		
Casting 73876	per NMS 71043	Rex Precision	
(b) Forgings			
Body - Code 1V41	SA182 F316		
Forging 75237		George Chaing & Assoc.	
Backseat - Code 1W30	SA564 Ty 630		
Bar Stock		Jorgensen Steel	

*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 7b 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.

PLDN NO. 2-0464
RRC-V-4 iG, S/N 2545
Luldip Sup
6/19/89.

FORM NPV-1 (back)

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

8. Hydrostatic test 5400-5450 psi.

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Avenue, Van Nuys, CA

Stress analysis report on file at NVD of Borg Warner, 7500 Tyrone Av., Van Nuys, CA

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

Stress analysis report certified by Byron Leonard (1) Prof. Eng. State CA Reg. No. E123

(1) Signature not required. List name only.

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

Date Sept. 13 19 77 Signed Nuclear Valve Div. of Borg Warner (Manufacturer) By Carol M. Parker

Certificate of Authorization No. N-1256 expires October 27, 1978

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of California and employed by Lumber m's Mutual Casualty of Long Grove, Illinois have inspected the equipment described in this Data Report on Sept. 13, 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.

NVD SR - 15-16342

Date Sept., 13 19 77

Manuel B. Diana (Inspector)

Commission CA-1279 (National Board, State, Province and No.)

NVD SR 16342

Printed in U.S.A. (8/77) This form (E00) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

2-1291-1447

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0465

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 1-18-89
   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 Valve	CV&G	*	N/A	N/A	1980	Replacement	Yes, Class 1

7. Description of Work:

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

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

Notes:
CV&G - Crosby Valve and Gage Caompany
* - Serial No. N63790-00-0122

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0465

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 _____ (Owner or Owner's Designee,) Title Plant Technical Manager

1/12/89

Date JAN 18 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 10-7-88 to 1-18-89, 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.

_____ (Inspector's Signature) Commissions 9556-W (National Board, State, and Endorsements)

Date 1-18 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0466

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 1-18-89
   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 Valve	CV&G	*	N/A	N/A	1980	Replacement	Yes, Class 1

7. Description of Work:

Replaced disc insert and nozzle in spare main steam relief valve, S/N N63790-00-0124. 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.

Notes:
CV&G - Crosby Valve and Gage Caompany
* - Serial No. N63790-00-0124

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0466

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

1/12/89

Date: Jan 18 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 10-7-88 to 1-18-89, 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: 1-18 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0470

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 12/15/88
   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) P.O. Box 600, Richland, WA
4. Identification of System Service Water (SW) System
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S75 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
SW-V-92	BW	28630	N/A	N/A	1978	Repair	Yes, Class 3

7. Description of Work:

Repaired service water valve SW-V-92. 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.
7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
BW - Borg Warner

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0470

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 210 psig, Test Temp. 50 °F
Component Design Pressure 3600 psig, Temp. 100 °F

9. Remarks:

None

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

K Gasiola 12/15/88

Date 12-15 19 88

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 11-8-88 to 12-19-88, 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 12-19 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0472

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 12-2-88
   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 19 71 Edition, W73 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
MS(1)-4C	WPPSS	*	N/A	N/A	1983	Repair	Yes, Class 2

7. Description of Work:

Repaired cracked weld. The repair work was performed as follows:

1) Cut and removed cracked weld.
2) Made new socket weld.
3) Performed MT examination on the final socket weld. MT examination results acceptable.

Notes:

*MS(1)-4C-P3

58-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0472

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 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

K Guys 12/1/88

Date 12-2 19 88

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 10-24-88 to 11-29-88, 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 12-2 19 88

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0473

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 8/9/89
   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 Standby Liquid Control (SLC) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 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
SLC-V-4A	CC	N/A	91	N/A	1975	Replacement	Yes, Class 1

7. Description of Work:

Replaced parts for explosive actuated valve for Standby Liquid Control system valve SLC-V-4A. The replacement work was performed as follows:

1. Removed trigger assembly and inlet fitting from the valve.
2. Installed replacement trigger assembly and inlet fitting in the valve.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

CC - Conax Corporation

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0473

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure * psig, Test Temp. Ambient °F
Component Design Pressure 1400 psig, Temp. 150 °F

9. Remarks:

See attached N-2 Code Data Reports for replacement trigger assembly and inlet fitting.

Valve EPN No.	Trigger Assembly S/N	Inlet fitting S/N
SLC-V-4A	2699	2735 2

*1220 psig pump side (inlet) flanged connection.
*1170 psig RPV side (outlet) flanged connection.

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 _____ (Owner or Owner's Designee.) Title Plant Technical Manager

Date 8-7 19 87

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 11/14/88 to 7/18/89, 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.

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

Date 8/9 19 89

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

PLAN NO. 2-0473

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

Not To Exceed One Day's Production

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

2. Manufactured for Washington Public Power Supply Station, P.O. Box 968, Richmond,WA. 99352 (name and address of purchaser)

3. Location of installation Washington Public Power Supply Sys. North Power Loop, Richmond, WA. (name and address)

4. Type N-38017 (drawing no.) 304SS SA479 (nat'l. spec. no.) 75KSI (tensile strength) NA (CRN) 1986 (year built)

5. ASME Code, Section III: 77 (edition) S77 (addenda) 1 (class) NA (Code Case no.)

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

7. Remarks: Inlet fitting for explosive actuated valve replacement kit

Standby liquid control system

Pressure tested at 2800 psi for 10 minutes

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

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 2723	2723	(26) SLC-V-4A.	
(2) 2724	2724	(27)	
(3) 2725	2725	(28) INLET FITTING	
(4) 2726	2726	(29) SERIAL NO. 2732.	
(5) 2727	2727	(30)	
(6) 2728	2728	(31)	Kulchip Gupta
(7) 2729	2729	(32)	6/23/89
(8) 2730	2730	(33)	
(9) 2731 JAT 2.2	2731	(34)	
(10) 2732	2732	(35)	
(11) JAT 2.2.		(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 1400 psi Temp. 150 °F. Hydro. test pressure *See Remarks (when applicable) at temp. °F.

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

(6/83)

PLAN NO. 2-0473

FORM N-2 (back)

INLET FITTING S/N 2732

Rudolph Sips 6/23/88

CERTIFICATE OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

ASME Certificate of Authorization no. N-1850 Expires Sept 2, 1980

Date 5/23/86 Name Conax Buffalo Corporation (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 New York and employed by Lumbermens Mutual Casualty Co. of Long Grove, IL. have inspected these items described in this data report on 5/23/86, 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 5/23/86 Signed J. A. Thomas (Authorized Inspector) Commissions OHIO COMMISSIONED NB7710 PA2534 NY2705 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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. 2-0473

Pg 1 of 1

1. Manufactured and certified by Conax Buffalo Corporation, 2300 Walden Ave. Cheektowaga, N.Y. 14225 (name and address of certificate holder)
2. Manufactured for Washington Public Power System Station, P.O. Box 968, Richland, WA 99352 (name and address of purchaser)
3. Location of installation Washington Public Power Supply Sys. North Power Plant Loop, Richland, WA (name and address)
4. Type N-20000 (drawing no.) 304SS SA479 (nat'l. spec. no.) 75KSI (tensile strength) NA (CRN) 1986 (year built)
5. ASME Code, Section III: 77 (edition) S77 (addenda) 1 (class) NA (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) NA (No.) Revision ____ Date ____
7. Remarks: Trigger body sub-assembly for explosive 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 Remarks Min. design thickness (in.) ____ Dia. ID (ft. & in.) ____ Length overall (ft. & in.) ____
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 2699	2699	(26) SLC-V-4A.	
(2) 2700	2700	(27)	
(3) 2701	2701	(28) TRIGGER	SUB ASSEMBLY
(4) 2702	2702	(29) SERIAL	NO. 2699
(5) 2703	2703	(30)	
(6) 2704	2704	(31) Kilclip Stamp	
(7) 2705	2705	(32)	
(8) 2706	2706	(33)	6/23/87.
(9) 2707	2707	(34)	
(10) 2708	2708	(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)	

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

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

(6/83)

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

PLAN NO. 2-0473

FORM N-2 (back)

TRIGGER SUB-ASSEMBLY S/N 2699

Culdip Guy's 6/23/89.

CERTIFICATE OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

ASME Certificate of Authorization no. N-1850 Expires September 2, 1986

Date 5/23/86 Name Conax Buffalo Corporation (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 New York and employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected these items described in this data report on 5/23/86 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 5/23/86 Signed J. A. Thomas (Authorized Inspector) Commissions OHIO COMMISSIONED NB7710 PA2534 NY2705 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0474

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 1/21/89
   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 Floor Drain Radioactive (FDR) 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
FDR-V-17	BW	22631	N/A	N/A	1977	Repair	Yes, Class 3

7. Description of Work:

Repaired valve FDR-V-17. The repair work was performed as follows:

1) Cut body to bonnet seal weld.
2) Removed valve internals for trouble shooting.
3) Machined disc seating surface.
4) Performed PT examinations on machined disc seating surface. PT examination results acceptable.
5) Reinstalled valve internals.
6) Installed bonnet into body and torqued it to the required torque value.
7) Made body to bonnet seal weld.
8) Performed PT examination on final seal weld. PT examination results acceptable.
9) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
BW - Borg-Warner

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0474

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 24 psig, Test Temp. Amb. °F
Component Design Pressure 3600 psig, Temp. 100 °F

9. Remarks:

None

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

Date 1/3/89 JAN 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 NOVEMBER 11, 1988 to DECEMBER 17, 1988, 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-U National Board, State, and Endorsements

Date January 4, 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0476

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 1/10/89
   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 19 71 Edition, W71 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
MS-V-28A	RM Co.	JU-53	78	N/A	1973	Replacement	Yes, Class 1

7. Description of Work:

Replaced existing internal valve parts with new improved replacement parts for MS-V-28A. The replacement work was performed as follows:

1. Removed existing stem disc assembly and disc assembly.
2. Installed new replacement stem disc and disc assembly.
3. Reassembled valve and torqued body to bonnet joint bolting material to the required torque value.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
RM Co. - Rockwell Manufacturing Co.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0476

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 1005 psig, Test Temp. 535 °F
Component Design Pressure 1250 psig, Temp. 575 °F

9. Remarks:

See attached N-2 Code Data Reports for the following:

Part	serial No.
Stem Disc Assembly	8
Disc Assembly	13

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 Ewing 1/9/89.

Date 1-10 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 12/8/85 to 1/6/89, 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 5476LL (National Board, State, and Endorsements)

Date 1/10 19 89

PLAN No. 2-0476
Rudolph Sug
1/6/89.

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 Rev. N (drawing no.) See Below (nat'l. spec. no.) N/A (tensile strength) N/A (CRN) 1987 (year built)
5. ASME Code, Section III: 1971 (edition) Winter '71 (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: Three (3) Stem Disk (SA-105) for 26" 1612 JMMNTY Main Steam Isolation Valve.

Rockwell S. O. # 36-35834

FOR INFORMATION ONLY

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 SRL 7	N/A	(26)	
(2) 6033641 SRL 8	N/A	(27)	
(3) 6033641 SRL 9	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 1250 psi Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F

3-26-87

*Additional sheets 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

FORM N-2 (back)

FOR INFORMATION ONLY

CERTIFICATE OF DESIGN

Design specifications certified by Boyd Brooks P. E. state CA Reg. no. 13655

Design report* certified by Salathiel Liell Adams, III P. E. state NC Reg. no. 4187
(when applicable)

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.

ASME Certificate of Authorization no. N-1563 Expires 11/26/88

Date 3/26/87 Name Rockwell International Corp. (NPT Certificate Holder) Signed D. H. Rains (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 3-27-87, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 3-27-87 Signed [illegible] (Authorized Inspector) Commissions NC 1013 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

PLAN NO. 2-0476 Buildup Supp. 1/6/89.

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 REV. N (drawing no.) See Below (nat'l. spec. no.) N/A (tensile strength) N/A (CRN) 1987 (year built)

5. ASME Code, Section III: 1971 (edition) Winter '71 (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: Three (3) Disk (SA-105) for 26" 1612 JMMNTY Main Steam Isolation Valve.

Rockwell S. O. #36-35834

FOR INFORMATION ONLY

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 SRL 13	N/A	(26)	
(2) 6033641 SRL 14	N/A	(27)	
(3) 6033641 SRL 15	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 1250 psi Temp. 575 °F. Hydro. test pressure N/A (when applicable) at temp. °F.

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

FORM N-2 (back)

CERTIFICATE OF DESIGN

Design specifications certified by Boyd Brooks P. E. state CA Reg. no. 13655

Design report* certified by Salathiel Liell Adams, III P. E. state NC Reg. no. 4187
(when applicable)

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.

ASME Certificate of Authorization no. N-1563 Expires 11/26/88

Date 3/26/87 Name Rockwell International Corp. (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 HSBI & I Co. of Hartford, CT have inspected these items described in this data report on 3-27-87, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 3-27-87 Signed [signature] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

FOR INFORMATION ONLY

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0478

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 1-16-89
   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 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 Valve	CV&G	*	N/A	N/A	1980	Replacement	Yes, Class 1

7. Description of Work:

Replaced disc insert in spare main steam relief valve, S/N N63790-00-0126. The replacement work was performed as follows:

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

Notes:
CV&G - Crosby Valve and Gaye Caompany
* - Serial No. N63790-00-0126

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0478

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 Ewes 1/16/89

Date 1-16 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 1-5-89 to 1-16-89, 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 1-16 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0479

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 9/1/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Diesel Oil (DO) 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
DO(1)-1A	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3
DO(9)-1A	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work:

Increased the drain line size and installed the overflow line from the day tank (DO-TK-3A) to the storage tank (DO-TK-1A). The replacement work was performed as follows:

1. Cut and removed existing piping and fitting material.
2. Installed new piping material, fitting material and valve.
3. Installed new support material.
4. Made required socket welds, butt welds and fillet welds.
5. Performed visual examinations on the final welds. Visual examination results acceptable.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:
* DO(1)-1A-P3
* DO(9)-1A

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0479

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ _____
Test Pressure 6.00-6.36 psig, Test Temp. 68.00-84.60 °F
Component Design Pressure Atm psig, Temp. 120 °F

9. Remarks:

See attached NPV-1 Code Data Report for the following:

Valve EPN No.	Serial No.
DO-V-56A	N0648A

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

8/31/89

Date 8-31 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 3/30/89 to 8/29/89, 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 9/1 19 89

PLAN NO. 2-0479.

DR-0648

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 Hirata Valve Industry Co., Ltd. 15 Hisamoto, Takatsu-Ku, Kawasaki, Japan
(Name and Address of N Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, Washington
(Name and Address of Purchaser or Owner)
3. Location of Installation WPPSS WNP-4, Richland, Washington, U.S.A.
(Name and Address)
4. Pump or Valve Gate Valve. Nominal Inlet Size 2 (inch) Outlet Size 2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Gate	N0648A	N/A	NP20119 Rev.0	3	2715	1980
(2)	Gate	N0648B	N/A	NP20119 Rev.0	3	2716	1980
(3)	Gate	N0648C	N/A	NP20119 Rev.0	3	2717	1980
(4)	- No Other Items -						
(5)							
(6)							
(7)	EPN NO.	SERIAL NO					
(8)	DO-V-56A	N0648A					
(9)							
(10)							

Pulidip Gupta 2/17/89.

5. Nuclear Service Water System of Pressurized Water Reactor Type Nuclear Power Generating Station
(Brief description of service for which equipment was designed)

6. Design Conditions 200 (Pressure) psi 350 (Temperature) °F or Valve Pressure Class 300 psi (1)
7. Cold Working Pressure 740 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings N/A			
(b) Forgings			
Body	ASME SA-105	Sumida Kogyo	
Bonnet	ASME SA-105	Sumida Kogyo	
Disc	ASME SA-182, Gr. F304	Sumida Kogyo	
	- No Other Items -		

(1) For manually operated valves only.

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

PLAN NO. 2-0479
Rulaip Engr.
5/17/

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Bonnet Bolt	ASME SA-193, Gr. B7	Takenaka Seisakusho	
Bonnet Nut	ASME SA-194, Gr. 2H	Takenaka Seisakusho	
	- No Other Items -		
(d) Other Parts N/A			

9. Hydrostatic test 1125 psi. Disk Differential test pressure 815 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 1975 (Date), Code Case No. N/A Date N/A

Signed Hirata Valve Industry Co., Ltd. (N Certificate Holder) by [signature] Vice President, Kawasaki Division Dec 16, 1980.

Our ASME Certificate of Authorization No. 1192 to use the N (N) symbol expires Aug. 4, '81 (Date).

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System, Richland, Washington

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

Design specifications certified by (1) Rathin Basu

PE State Washington Reg. No. 15049

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Maryland and employed by The H.S.B.I. and I. Co. of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on Dec 16 19 80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date Dec 16 19 80

[signature] (Inspector) C. A. Garrison

Commissions NB5271 (Nat'l Bd., State, Prov. and No.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0479

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 9/1/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Diesel Oil (DO) System
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W74 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
DO-TK-3A	Reco, Inc	N-2297-10	73328	N/A	1976	Replacement	Yes, Class 3

7. Description of Work:

Increased the size of the existing nozzle on the day tank (DO-TK-3A). The replacement work was performed as follows:

1. Removed existing nozzle connection.
2. Installed new nozzle connection.
3. Made required weld.
4. Performed MT examination on the final weld. MT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0479

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ _____
Test Pressure 6.00-6.36 psig, Test Temp. 84.6 °F
Component Design Pressure Atm psig, Temp. Amb °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 _____ (Owner or Owner's Designee.) Title Plant Technical Manager

8/31/89

Date 8-31 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 3/30/89 to 8/29/89, 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.

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

Date 9/1 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0480

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 9/1/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Diesel Oil (DO) 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
DO(1)-1B	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3
DO(9)-1B	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work:

Increased the drain line size and installed the overflow line from the day tank (DO-TK-3B) to the storage tank (DO-TK-1B). The replacement work was performed as follows:

1. Cut and removed existing piping and fitting material.
2. Installed new piping material, fitting material and valve.
3. Installed new support material.
4. Made required socket welds, butt welds and fillet welds.
5. Performed visual examinations on the final welds. Visual examination results acceptable.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

* DO(1)-1B-P3
* DO(9)-1B

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0480

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ _____
Test Pressure 6.00-6.36 psig, Test Temp. 68-71 °F
Component Design Pressure Atm psig, Temp. 120 °F

9. Remarks:

See attached NPV-1 Code Data Report for the following:

Valve EPN No.	Serial No.
DO-V-56B	N0648B

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 Swift 3/31/89

Date 8-31 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 3/30/89 to 8/28/89, 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 9/1 19 89

PLAN NO. 2-0480

DR-0648

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 Hirata Valve Industry Co., Ltd. 15 Hisamoto, Takatsu-Ku, Kawasaki, Japan
(Name and Address of N Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, Washington
(Name and Address of Purchaser or Owner)
3. Location of Installation WPPSS WNP-4, Richland, Washington, U.S.A.
(Name and Address)
4. Pump or Valve Gate Valve. Nominal Inlet Size 2 (inch) Outlet Size 2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Gate	N0648A	N/A	NP20119 Rev.0	3	2715	1980
(2)	Gate	N0648B	N/A	NP20119 Rev.0	3	2716	1980
(3)	Gate	N0648C	N/A	NP20119 Rev.0	3	2717	1980
(4)	- No Other Items -						
(5)							
(6)							
(7)	EPN NO.	SERIAL NO					
(8)	DO-V-56B	N0648B					
(9)							
(10)							

Philip Smith 8/17/89.

5. Nuclear Service Water System of Pressurized Water Reactor Type Nuclear Power Generating Station
(Brief description of service for which equipment was designed)

6. Design Conditions 200 (Pressure) psi 350 (Temperature) °F or Valve Pressure Class 300 psi (1)
7. Cold Working Pressure 740 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings N/A			
(b) Forgings			
Body	ASME SA-105	Sumida Kogyo	
Bonnet	ASME SA-105	Sumida Kogyo	
Disc	ASME SA-182, Gr. F304	Sumida Kogyo	
	- No Other Items -		

(1) For manually operated valves only.

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

PLAN. NO. 2-0480
Quality Supt
8/

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Bonnet Bolt	ASME SA-193, Gr. B7	Takenaka Seisakusho	
Bonnet Nut	ASME SA-194, Gr. 2H	Takenaka Seisakusho	
	- No Other Items -		
(d) Other Parts N/A			

9. Hydrostatic test 1125 psi. Disk Differential test pressure 815 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 1975 (Date), Code Case No. N/A, Date N/A

Signed Hirata Valve Industry Co., Ltd. (N Certificate Holder) by [signature] Vice President, Kawasaki Division Dec 16, 1980.

Our ASME Certificate of Authorization No. 1192 to use the N (N) symbol expires Aug. 4, '81 (Date).

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System, Richland, Washington

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

Design specifications certified by (1) Rathin Basu

PE State Washington Reg. No. 15049

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Maryland and employed by The H.S.B.I. and I. Co. of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on Dec 16 19 80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date Dec 16 19 80.

[signature] (Inspector) C. A. Garrison

Commissions NB5271 (Nat'l Bd., State, Prov. and No.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0480

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 9/1/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Diesel Oil (DO) System
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W74 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
DO-TK-3B	Reco, Inc	N-2297-20	73329	N/A	1976	Replacement	Yes, Class 3

7. Description of Work:

Increased the size of the existing nozzle on the day tank (DO-TK-3A). The replacement work was performed as follows:

1. Removed existing nozzle connection.
2. Installed new nozzle connection.
3. Made required weld.
4. Performed MT examination on the final weld. MT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0480

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ _____
Test Pressure 6.00-6.36 psig, Test Temp. 68 °F
Component Design Pressure Atm psig, Temp. Amb °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

8/31/89

Date 8-31 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 3/30/89 to 8/28/89, 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 9/1 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0481

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 9/1/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Diesel Oil (DO) 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
DO(1)-1-HPCS	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3
DO(9)-1-HPCS	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 3

7. Description of Work:

Increased the drain line size and installed the overflow line from the day tank (DO-TK-3C) to the storage tank (DO-TK-2). The replacement work was performed as follows:

1. Cut and removed existing piping and fitting material.
2. Installed new piping material, fitting material and valve.
3. Installed new support material.
4. Made required socket welds, butt welds and fillet welds.
5. Performed visual examinations on the final welds. Visual examination results acceptable.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

* DO(1)-1-HPCS-P1
* DO(9)-1-HPCS

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0480 1

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
Test Pressure 6.00-6.36 psig, Test Temp. 68-71 °F
Component Design Pressure Atm psig, Temp. 120 °F

9. Remarks:

See attached NPV-1 Code Data Report for the following:

Valve EPN No.	Serial No.
DO-V-56C	N0648C

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 Grupp 8/31/89

Date 8-31 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 3/28/89 to 8/29/89, 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 9/1 19 89

PLAN NO. 2-0481

DR-0648

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 Hirata Valve Industry Co., Ltd. 15 Hisamoto, Takatsu-Ku, Kawasaki, Japan
(Name and Address of N Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, Washington
(Name and Address of Purchaser or Owner)
3. Location of Installation WPPSS WNP-4, Richland, Washington, U.S.A.
(Name and Address)
4. Pump or Valve Gate Valve. Nominal Inlet Size 2 (inch) Outlet Size 2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Gate	N0648A	N/A	NP20119 Rev.0	3	2715	1980
(2)	Gate	N0648B	N/A	NP20119 Rev.0	3	2716	1980
(3)	Gate	N0648C	N/A	NP20119 Rev.0	3	2717	1980
(4)	- No Other Items -						
(5)							
(6)							
(7)	EPN NO.	SERIAL NO					
(8)	DO-V-56C	N0648C					
(9)							
(10)							

Curtis Eups 8/17/89.

5. Nuclear Service Water System of Pressurized Water Reactor Type Nuclear Power Generating Station
(Brief description of service for which equipment was designed)

6. Design Conditions 200 (Pressure) psi 350 (Temperature) °F or Valve Pressure Class 300 psi (1)
7. Cold Working Pressure 740 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings N/A			
(b) Forgings			
Body	ASME SA-105	Sumida Kogyo	
Bonnet	ASME SA-105	Sumida Kogyo	
Disc	ASME SA-182, Gr. F304	Sumida Kogyo	
	- No Other Items -		

(1) For manually operated valves only.

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

PLAN NO. 2-0481
Audrey Supt
9/17

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Bonnet Bolt	ASME SA-193, Gr. B7	Takenaka Seisakusho	
Bonnet Nut	ASME SA-194, Gr. 2H	Takenaka Seisakusho	
	- No Other Items -		
(d) Other Parts N/A			

9. Hydrostatic test 1125 psi. Disk Differential test pressure 815 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 1975 (Date), Code Case No. N/A Date N/A
Signed Hirata Valve Industry Co., Ltd. (N Certificate Holder) by [signature] Vice President, Kawasaki Division Dec 16, 1980.
Our ASME Certificate of Authorization No. 1192 to use the N (N) symbol expires Aug. 4, '81. (Date)

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System, Richland, Washington
Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) Rathin Basu
PE State Washington Reg. No. 15049
Stress analysis certified by (1) N/A
PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Maryland and employed by The H.S.B.I. and I. Co. of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on Dec 16 19 80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date Dec 16 19 80.
[signature] (Inspector) C. A. Garrison Commissions NB5271 (Nat'l Bd., State, Prov. and No.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0481

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 9/1/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Diesel Oil (DO) System
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W74 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
DO-TK-3C	Reco, Inc	N-2297-30	73330	N/A	1976	Replacement	Yes, Class 3

7. Description of Work:

Increased the size of the existing nozzle on the day tank (DO-TK-3C). The replacement work was performed as follows:

1. Removed existing nozzle connection.
2. Installed new nozzle connection.
3. Made required weld.
4. Performed MT examination on the final weld. MT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0481

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ _____
Test Pressure 6.00-6.36 psig, Test Temp. 68 °F
Component Design Pressure Atm psig, Temp. Amb °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

Date 8-31 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 3/28/89 to 8/29/89, 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 9/1 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0482

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 8/9/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Diesel Oil (DO) System
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
DO-V-40A	*	103	1151	N/A	1981	Replacement	Yes, Class 3
DO-V-40B	*	104	1152	N/A	1981	Replacement	Yes, Class 3

7. Description of Work:

Modified (deactivated) valves DO-V-40A and DO-V-40B. The deactivation work was performed as follows:

1. Removed valve internals (i.e. poppet, stem etc.) from each of the valve.
2. Reinstalled the valve cover and the bolting material.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

*Marotta Scientific Controls

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0482

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure * psig, Test Temp. * °F
Component Design Pressure 100 psig, Temp. 120 °F

9. Remarks:

None

* Valve EPN	Test Pressure	Test Temperature
DO-V-40A	10.3 psig	68°F
DO-V-40B	14 psig	68.4°F

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. Gwin 9/8/89

Date 8-9 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 3/30/89 to 8/7/89, 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 8/9/ 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0487

2-0488-1

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 9/6/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 2
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 MS, RCC and RWCU Systems
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, N3C8 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)-4A	WPPSS	*	N/A	N/A	1984	Replacement	Yes, CL NF(1)
RCC(36)-1	WPPSS	*	N/A	N/A	1984	Replacement	Yes, CL NF(3)
RCC(3)-1	WPPSS	*	N/A	N/A	1984	Replacement	Yes, CL NF(3)
RWCU(3)-4	WPPSS	*	N/A	N/a	1984	Replacement	Yes, CL NF(1)

7. Description of Work:

A. Plan No. 2-0487

Modified component standard hardware items used during replacement of existing snubbers with rigid struts under Plan No. 2-0488-1. The modification work was performed as follows:

1. Trimmed rigid strut pipe to the required length.
2. Cut plate material to the required dimensions.
3. Installed rigid strut pipe, plate material and made required welds.
4. Performed MT examination on the final welds. MT examination results acceptable.

Notes:

* Same as name of component

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0487

2-0488-1

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: See attached NF-2 Code Data Reports for the following:

Support No.	Serial No.	Support No.	Serial No.
MS-2619-16	NA-2295-025-10	RCC-909N	NA-2295-026-7 5
MS-2619-21	NA-2295-025-13	MS-2619-14	NA-2295-001-1
MS-2619-26	NA-2295-025-14	MS-2619-311	NA-2295-001-6
MS-2619-312	NA-2295-025-15	MS-2619-313	NA-2295-001-7
MS-2619-210	NA-2511-001-3	MS-2619-314	NA-2295-001-8
RCC-327	NA-2511-001-5	MS-2619-318	NA-2295-001-9
RWCU-1C-4	NA-2295-027-16	MS-2619-319	NA-2295-001-10
RWCU-1C-1	NA-2295-026-7	MS-2619-46	NA-2295-001-4
		MS-2619-42A	NA-2295-001-3

KSuvis 9/19/89.

9/6/89

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 _____ (Owner or Owner's Designee,) Title Plant Technical Manager

KSuvis 8/31/89

Date 8·31 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 4-17-89 to 9/6/89, 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.

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

Date 9/6 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0487

2-0488-1

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 9/6/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 2 of 2
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 MS, RCC and RWCU Systems
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

7. Description Of Work: (continued from Sheet 1)

B. Plan No. 2-0488-1

Replaced existing snubbers with rigid struts. The replacement work was performed as follows:

1. Removed existing snubbers.
2. Installed rigid struts.
3. Installed modified rigid struts.
4. Performed preservice inspections (PSI). PSI results satisfactory.

Notes:

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. 2-0488-1

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-1			
(4)				SUPPORT NO.		SERIAL NO.	
(5)	*NA-2295-025-1			MS-2619-16		NA-2295-025-10	
(6)	THRU			MS-2619-21		NA-2295-025-13	
(7)	NA-2295-025-15			MS-2619-26		NA-2295-025-14	
(8)				MS-2619-312		NA-2295-025-15	
(9)							
(10)							

Rudip Lewis
8/15/89.

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.)

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on [illegible] and number of sheets is recorded at [illegible]

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. 2-0488-.

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	1989
(2)			REV.0	SNUBBER			
(3)				SMR-3			
(4)				SUPPORT NO.		- SERIAL NO.	
(5)	*	NA-2511-001-1		MS-2619-210		NA-2511-001-3	
(6)		THRU.		RCC-327		NA-2511-001-5.	
(7)		NA-2511-001-10					
(8)				Rulaip Singh			
(9)				8/15/89.			
(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 3/17, 19 89. 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, 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 3-17, 19 89, 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 3-17-89

Signed [signature] Commissions TEXAS # 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 2-0488-1

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)				SUPPORT NO		SERIAL NO.	
(5)	*	NA-2295-027-1		RWCU-IC-4		NA-2295-027-16	
(6)		THRU					
(7)		NA-2295-027-21				Rudolph Sawyers	
(8)						8/15/89.	
(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 [signature] Commissions TEXAS 1186
(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 [illegible] is numbered as [illegible]

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. 2-0488-1

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)				SUPPORT NO		SERIAL NO.	
(5)	* NA-2295-026-1			RWCU-IC-1		NA-2295-026-7	
(6)	THRU			RCC-909N		NA-2295-026-5	
(7)	NA-2295-026-20						
(8)						Rudolf Engl's	
(9)						8/15/89	
(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 L. L. Jones Commissions TEXAS 1186
(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 ... is numbered and number of sheets is recorded at ...

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. 2-0488-1

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-110	MODIFIED	1	N/A	1988
(2)			REV.0	SWAY STRUT	SUPPORT NO.		SERIAL NO.
(3)				ASSEMBLY	MS-2619-14		NA-2295-001-1
(4)				SRS-06M-SO	MS-2619-311		NA-2295-001-6
(5)	* NA-2295-001-1				MS-2619-313		NA-2295-001-7
(6)	THRU				MS-2619-314		NA-2295-001-8
(7)	NA-2295-001-16				MS-2619-318		NA-2295-001-9
(8)					MS-2619-319		NA-2295-001-10
(9)					MS-2619-46		NA-2295-001-4
(10)					MS-2619-42A.		NA-2295-001-3

:pma

Philip Sup'b 8/15/89.

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.

*THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE CO.

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 L.R. Jones Commissions TEXAS 1186 (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.

3-30-88.

(10/77) This form (E00076) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0487

2-0488-2

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 9/6/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 2
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 RHR, RWCU and SLC Systems
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, N303 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
RHR(1)-2A	WPPSS	*	N/A	N/A	1983	Replacement	Yes, CL NF(2)
RHR(1)-2B	WPPSS	*	N/A	N/A	1984	Replacement	Yes, CL NF(2)
RHR(4)-1A	WPPSS	*	N/A	N/A	1984	Replacement	Yes, CL NF(2)
RWCU(1)-4	WPPSS	*	N/A	N/A	1984	Replacement	Yes, CL NF(3)
SLC(2)-4S	WPPSS	*	N/A	N/A	1984	Replacement	Yes, CL NF(2)

7. Description of Work:

A. Plan No. 2-0487

Modified component standard hardware items used during replacement of existing snubbers with rigid struts under Plan No. 2-0488-2. The modification work was performed as follows:

1. Trimmed rigid strut pipe to the required length.
2. Cut plate material to the required dimensions.
3. Installed rigid strut pipe plate material and made required weld.
4. Performed MT examination on the final weld. MT examination results acceptable.
5. Modified transition tube kit and made required welds.
6. Machined standard snubber pins to the required dimensions. Performed visual examinations on the machined surfaces. Visual examination results acceptable.
7. Machined threads on the hanger rod. Performed visual examinations on the threaded surfaces. Visual examination results acceptable.

Notes:

* Same as name of component.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0487

2-0488-2

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: See attached NF-2 Code Data Report for the following:

Support No.	Serial No.	Support No.	Serial No.
RHR-599	NA-2511-001-4	RHR-369	NA-2295-026-3
RHR-362(T)	NA-2511-001-6	SLC-4453-68	NA-2295-001-12
RHR-362(B)	NA-2511-001-8		
RHR-589	NA-2511-001-7		
RHR-251	NA-2511-001-2		
RHR-158	NA-2511-001-10	(T) Top	
RHR-356	NA-2295-027-9	(B) Bottom	

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

8/31/89

Date 8-31 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 4/17/89 to 9/6/89, 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 9/6 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0487

2-0488-2

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 9/6/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 2 of 2
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 RHR, RWCU and SLC Systems
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

7. Description Of Work: (continued from Sheet 1)

B. Plan No. 2-0488-2

Replaced existing snubbers with rigid struts. The replacement work was performed as follows:

1. Removed existing snubbers.
2. Installed rigid struts.
3. Installed modified rigid struts.
4. Installed undersized pins, hanger rod, transition tube kit, plate assemblies, spring can, etc.
5. Performed preservice inspection (PSI). PSI results satisfactory.

Notes:

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. 2-0488-2

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	1989
(2)			REV.0	SNUBBER			
(3)				SMR-3			
(4)				SUPPORT NO.		SERIAL NO.	
(5)	*	NA-2511-001-1		RHR-599.		NA-2511-001-4	
(6)		THRU.		RHR-362 (CT)		NA-2511-001-6	
(7)		NA-2511-001-10		RHR-362(B)		NA-2511-001-8	
(8)				RHR-589		NA-2511-001-7	
(9)				RHR-251.		NA-2511-001-2	
(10)				RHR-158		NA-2511-001-10	

Quality Supervisor
8/15/89

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 3/17, 19 89. 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, 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 3-17, 19 89, 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 3-17-89

Signed [signature] Commission TEXAS # 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. 2-0488-2

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)			SUPPORT NO.		SERIAL NO.	
(5) *	NA-2295-027-1		RHR-356		NA-2295-027-9	
(6)	THRU					
(7)	NA-2295-027-21				Dulaip Gupta	
(8)					8/15/89.	
(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.)

Supplementary sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on [illegible] is recorded at [illegible]

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 2-0488-2.

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)				SUPPORT NO.		SERIAL NO.	
(5)	* NA-2295-026-1			RHR-369		NA-2295-026-3	
(6)	THRU						
(7)	NA-2295-026-20					Philip Ewing	
(8)						8/15/89.	
(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 [signature] Commissions TEXAS 1126
(National 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 [illegible] is numbered and number of sheets is recorded at [illegible]

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 2-0488-2

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-110	MODIFIED	1	N/A	1988
(2)			REV.0	SWAY STRUT			
(3)				ASSEMBLY			
(4)				SRS-06M-SO			
(5)	* NA-2295-001-1			SUPPORT NO.		SERIAL NO.	
(6)	THRU			SLC-4453-68		NA-2295-001-12.	
(7)	NA-2295-001-16						
(8)				Rudolph Swift			
(9)				8/15/89.			
(10)							

:pma

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.

*THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE CO.

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 1186 (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.

3-30-88

(10/77) This form (E00076) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0487

2-0488-3

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 9/6/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 2
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 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	1984	Replacement	Yes, CL NF(2)

7. Description of Work:

A. Plan No. 2-0487

Modified component standard hardware items used during replacement of existing snubbers with rigid struts under Plan No. 2-0488-3. The modification work was performed as follows:

1. Trimmed rigid strut pipe to the required length.
2. Cut plate material to the required dimensions.
3. Installed rigid strut pipe plate material and made required welds.
4. Removed existing defective eye rod paddle and installed new machined eye rod paddle and made required welds.
5. Performed MT examination on the final welds. MT examination results acceptable.

Notes:
* Same as name of component

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0487

2-0488-3

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: See attached NF-2 Code Data Re orts for the following:

Support No.	Serial No.	
MS-57(E)	NA-2511-001-1	(E) East
MS-57(W)	NA-2511-001-9	(W) West
MS-53(E)	NA-2295-023-1	
MS-53(W)	NA-2295-023-2	
MS-1010N(E)	NA-2295-027-18	
MS-1010N(W)	NA-2295-027-21	

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 9/3/89

Date 8-31 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 4/17/89 to 9/6/89, 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 9/6 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0487

2-0488-3

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 9/6/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 2 of 2
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 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

7. Description Of Work: (continued from Sheet 1)

B. Plan No. 2-0488-3

Replaced existing snubbers with rigid struts. The replacement work was performed as follows:

1. Removed existing snubbers.
2. Installed rigid struts.
3. Installed modified rigid struts.
4. Performed preservice inspections (PSI). PSI results satisfactory.

Notes:

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. 2-0488-3

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	1989
(2)			REV.0	SNUBBER			
(3)				SNR-3			
(4)				SUPPORT NO.		SERIAL NO.	
(5)	*	NA-2511-001-1		MS-57 (E)		NA-2511-001-1	
(6)		THRU.		MS-57 (W)		NA-2511-001-9	
(7)		NA-2511-001-10					
(8)						Rudolf Supps	
(9)						8/15/89	
(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 3/17, 19 89. 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, 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 3-17, 19 89, 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 3-17-89

Signed [signature] Commissions TEXAS # 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. 2-0488-3

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)				SUPPORT NO.		SERIAL NO.	
(5)	* NA-2295-027-1			MS-1010N (E)		NA-2295-027-18	
(6)	THRU			MS-1010N (W)		NA-2295-027-21	
(7)	NA-2295-027-21						
(8)						Dulip Singh	
(9)						8/15/89	
(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 [signature] Commission TEXAS 1186
(Nat'l Board, State, Province, and No.)

Additional sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on [illegible] is numbered as

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. 2-0488-3

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	S-495	MODIFIED	1	N/A	1988
(2)			REV.7	SWAY STRUT			
(3)				ASSEMBLY			
(4)				SRS-24-SO			M = MODIFIED.
(5)	* NA-2295-023-1			M			
(6)	&			Dudley Smith			
(7)	NA-2295-023-2			8/15/89.			
(8)				SUPPORT NO.		SERIAL NO.	
(9)				MS-53(E)		NA-2295-023-1	
(10)				MS-53(W)		NA-2295-023-2	

:pma

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.

*THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE CO.

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 1186
(~~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.

3-30-88

(10/77) This form (E00076) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0499

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 9/1/89
   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 19 71 Edition, W71 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-V-28A	Rockwell	JU-53	78	N/A	1973	Replacement	Yes, Class 1

7. Description of Work:

Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new 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 results acceptable.
3. Repaired cavities for 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 and reassembled the valve.
7. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0499

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 965 psig, Test Temp. 535 °F
Component Design Pressure 1250 psig, Temp. 575 °F

9. Remarks:

See attached N-2 Code Data Report for the following:

Part Description	Serial No.
Disc	6053657-154
Stem disc	6033641-156

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 Sutsch 8/31/89

Date 8-31 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 5/3/89 to 8/29/89, 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 9/1 19 89

PLAN No. 2-0499.

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: Five (5) 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)	6053657-153	N/A	(26)		
(2)	6053657-154	N/A	(27)		
(3)	6053657-155	N/A	(28)		
(4)	6053657-156	N/A	(29)		
(5)	6053657-157	N/A	(30)		
(6)			(31)		
(7)			(32)		
(8)			(33)		
(9)	EPN NO.	DISC S/N.	(34)		
(10)	MS-V-28A	6053657-154	(35)		
(11)			(36)		
(12)			(37)		
(13)		Rudolph Rupp	(38)		
(14)		8/23/89.	(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.

Quality Supt. PLAN NO. 2-0499.
8/23/89.

FORM N-2 (back)

Mfr. Serial No. 6053657-153[illegible]7

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 NC1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

PLAN NO. 2-0499..

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) EPN NO	STEM DISC S/N.	(36)	
(12) MS-V-28A	6033641-156	(37)	
(13)		(38)	
(14)	Philip Sup'b	(39)	
(15)	9/23/89	(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.

Buildup Grips 8/23/89 PLAN NO. 2-0499

FORM N-2 (back)

Mfr. Serial No. 6033641-151-15

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 [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 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 [signature] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0500

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 9/1/89
   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 19 71 Edition, W71 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-V-28D	Rockwell	JT-78	71	N/A	1973	Replacement	Yes, Class 1

7. Description of Work:

Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new 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 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 and reassembled the valve.
7. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0500

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 960 psig, Test Temp. 540 °F
Component Design Pressure 1250 psig, Temp. 575 °F

9. Remarks:

See attached N-2 Code Data Report for the following:

Part Description	Serial No.
Disc	6053657-153
Stem disc	6033641-152

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 Leigh 8/31/89

Date 8-31 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 5/4/89 to 8/28/89, 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 9/1 19 89

PLAN NO. 2-0500

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: Five (5) 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) 6053657-153	N/A	(26)	
(2) 6053657-154	N/A	(27)	
(3) 6053657-155	N/A	(28)	
(4) 6053657-156	N/A	(29)	
(5) 6053657-157	N/A	(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9) EPN NO.	DISC S/N	(34)	
(10) MS-V-28D	6053657-153	(35)	
(11)		(36)	
(12)	Rudolph Engels	(37)	
(13)	8/23/89.	(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.

Quality Sys. PLAN No. 2-0500
8/23/88

FORM N-2 (back)

Mfr. Serial No. 6053657-153, 157

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 NC1083 (Nat'L Bd. (incl. endorsements) state or prov. and no.)

PLAN NO. 2-0500.

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) EPN NO.	STEM DISC S/N	(37)	
(13) MS-V-28D	6033641-152	(38)	
(14)		(39)	
(15)	Rudolf Gaupb	(40)	
(16)	8/23/89	(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.

PLAN NO. 2-0500

Quality Engr 8/23/89

FORM N-2 (back)

Mfr. Serial No. 6033641-151-15

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 [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 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 [signature] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0501

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 9/1/89
   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 19 71 Edition, W71 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-V-22A	Rockwell	JV-2	81	N/A	1973	Replacement	Yes, Class 1

7. Description of Work:

Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new 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 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 and reassembled the valve.
7. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0501

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 965 psig, Test Temp. 535 °F
Component Design Pressure 1250 psig, Temp. 575 °F

9. Remarks:

See attached N-2 Code Data Report for the following:

Part Description	Serial No.
Disc	6053657-156
Stem disc	6033641-154

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

3/31/89

Date 2-31 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 5/6/89 to 8/31/89, 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 9556W National Board, State, and Endorsements

Date 9/1 19 89

PLAN NO. 2-0501

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: Five (5) 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) 6053657-153	N/A	(26)	
(2) 6053657-154	N/A	(27)	
(3) 6053657-155	N/A	(28)	
(4) 6053657-156	N/A	(29)	
(5) 6053657-157	N/A	(30)	
(6)		(31)	
(7)		(32)	
(8) EPN NO.	DISC S/N	(33)	
(9) MS-V-22A	6053657-157	(34)	
(10)		(35)	
(11)	Rudolph Engels	(36)	
(12)	8/23/89.	(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.

PLAN NO. 2-0501

Cutaway Supply 8/23/89

FORM N-2 (back)

Mfr. Serial No. 6053657-153 [illegible]7

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 NC1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

PLAN NO. 2-0501.

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)	EPN NO.	STEM DISC S/N	(36)		
(12)	MS-V-22A	6033641-154	(37)		
(13)			(38)		
(14)		Vulcan Sawyer	(39)		
(15)		8/23/89	(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.

Building Supply 8/23/89 PLAN No. 2-0501

FORM N-2 (back)

Mfr. Serial No. 6033641-151-15

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 [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 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 [signature] (Authorized Inspector) Commissions NC 1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0502

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 9/1/89
   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 19 71 Edition, W71 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-V-22D	Rockwell	JT-41	68	N/A	1973	Replacement	Yes, Class 1

7. Description of Work:

Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new 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 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 and reassembled the valve.
7. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0502

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 960 psig, Test Temp. Sat Stm °F
Component Design Pressure 1250 psig, Temp. 575 °F

9. Remarks:

See attached N-2 Code Data Report for the following:

Part Description	Serial No.
Disc	6053657-155
Stem disc	6033641-153

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

Date 9-31 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 5/5/89 to 8/31/89, 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 955W (National Board, State, and Endorsements)

Date 9/1 19 89

PLAN No. 2-0502

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: Five (5) 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) 6053657-153	N/A	(26)	
(2) 6053657-154	N/A	(27)	
(3) 6053657-155	N/A	(28)	
(4) 6053657-156	N/A	(29)	
(5) 6053657-157	N/A	(30)	
(6)		(31)	
(7)		(32)	
(8) EPN NO.	DISC S/N.	(33)	
(9) MS-V-22D	6053657-155	(34)	
(10)		(35)	
(11)	Rudolph Lupo	(36)	
(12)	8/23/89.	(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.

PLAN NO. 2-0502.

Quality Supt 3/23/89

FORM N-2 (back)

Mfr. Serial No. 6053657-153

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 NC1083 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

PLAN NO. 2-050C,

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) EPN No.	STEM DISC S/N.	(37)	
(13) MS-V-22D	6033641-153	(38)	
(14)		(39)	
(15)	Kulding Supts	(40)	
(16)	8/23/89.	(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.

PLAN NO. 2-0502.

Outdip Supt 8/23/89.

FORM N-2 (back)

Mfr. Serial No. 6033641-151-15

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. 2-0504

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 8/9/89
   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 19 71 Edition, W72 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
MS-V-20	A/D	2N-347	N/A	N/A	1975	Replacement	Yes, Class 2

7. Description of Work:

Replaced existing valve bonnet with a new replacement bonnet for valve MS-V-20. The replacement work was performed as follows:

1. Installed pipe plug in valve bonnet leak off connection and seal welded the pipe plug.
2. Performed PT examination on the final seal weld. PT examination results acceptable.
3. Installed new replacement bonnet and reassembled the valve.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

A/D - Anchor/Darling Valve Co.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0504

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 960 psig, Test Temp. 535 °F
Component Design Pressure 2160 psig, Temp. 100 °F

9. Remarks:

See attached N-2 Code Data Report for the new bonnet, Serial No. 1, Heat No. 217813.

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 Eurich 8/8/89

Date 8-9 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 5/22/89 to 8/3/89, 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 8/9 19 89

VERIFIED & ACCEPTED [illegible] 10-2-86
R.I. Inspector Date

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. I MS-V-20

PLAN No. 2-0504 [illegible] 7/5/89.

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, Washington 99:
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N 1 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D12459 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Bonnet; Heat No. 217813 SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. N/A Class 2

3. Remarks 3"-900#-Globe
(Brief description of service for which component was designed)

A/DV S.O. P-5023-1

Note: No Hydro Performed

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

Date 9/12 19 86 Signed Anchor/Darling Valve Co. By R L Stannett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/89 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 7-30-86 [illegible] 9-12-86 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 9-12 19 86

[signature] Commissions Pennsylvania 2392
Charles Young
(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".

(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. 2-0505

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 8/9/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Service Water (SW) System
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, 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
18SW(21)-2	BFS	N/A	N/A	N/A	1979	Repair	Yes, Class 3
18SW(22)-2	BFS	N/A	N/A	N/A	1979	Repair	Yes, Class 3

7. Description of Work:

Removed lugs from the pipe pad (saddle) for supports SW-919N and SW-941N. Blended the areas from where the lugs were removed into the surrounding base metal (pipe paddle).

Notes:

BFS - BF Shaw Company

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0505

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 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 _____ (Owner or Owner's Designee,) Title Plant Technical Manager

Date 8-9 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 5/12/89 to 7/19/89, 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.

_____ (Inspector's Signature) Commissions 9536 W (National Board, State, and Endorsements)

Date 8/9 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0508

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 8/9/89
   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 High Pressure Core Spray (HPCS) 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, 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
HPCS(3)-1	WPPSS	HPCS(3)-1	N/A	N/A	1983	Repaired	Yes, Class 2

7. Description of Work:

Installed modified vent connection. The installation work was performed as follows:

1. Removed existing vent connection with failed weld.
2. Installed new piping and fitting material.
3. Installed one (1) new valve and reused the second (2) valve.
4. Made circumferential butt welds and socket weld.
5. Performed RT examination on final circumferential butt welds and PT/MT examination on final socket welds. RT, PT/MT examination results acceptable.
6. Installed support material and made required welds. Performed MT examination on the final welds. MT examination results acceptable.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0508

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:

See attached NPV-1 Code Data Report for the following:

EPN	Serial No.
HPCS-V-83	79958

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repaired (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 Swan 8/3/89

Date 8-9 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 5/20/89 to 8/7/89, 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 8/9 19 89

PLAN NO 2-0506

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

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

1. Manufactured by Duclad Valve Div., Borg-Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder) 3000 George Washington Way
2. Manufactured for Washington Public Power Supply Systems, Richland, Washington
(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 Y Globe Valve Nominal Inlet Size 3/4 (inch) Outlet Size 3/4 (inch)

	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	1500#	79951 thru 79974	N/A	76590-2	1	N/A	1983
(2)							
(3)							
(4)							
(5)		NEW VALVE	APCS-V-83, SERIAL NO. 79958				
(6)							
(7)							
(8)				Eulalio Gurch			
(9)							
(10)					6/1/89		

5. The valves are designed to handle a fluid media which includes steam, water condensate, borated water, etc., [illegible] and SFA. 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 1X20 1T01, 1W10, 5F32	Stellite 46	Rex Precision	
(b) Forgings			
Body-Code 1V46	SA 105	Kawaguchi	

(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.

BECHTEL

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

HPCS-V-83, S/N 79958
Rudolph Sutz
6/1/89

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
			PLAN NO.2-0508
(d) Other Parts N/A	1	N/A	
Backseat-Code 4J86	SA 564 Ty 630	Jorgensen Steel	
4H70, 5E84			

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 7/29/83.

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 NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) Byron H. Leonard

PE State CA Reg. No. E123

(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 7/29 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 7/29 19 83

(Inspector) Commissions 1275-CA-NB 7669 BENTEL (Nat'l Bd., State, Prov. and No.)

653

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0510

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 8/28/89
   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) P.O. Box 600, Richland, WA
4. Identification of System Reactor Water Cleanup (RWCU) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W71 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
RWCU-HX-1A	GE	223395	54361	N/A	1972	Repaired	Yes, Class 3

7. Description of Work:

Replaced diaphragm plate on RWCU-HX-1A channel head. The replacement work was performed as follows:

1. Removed existing diaphragm plate by grinding the seal weld.
2. Prepped the channel head facing.
3. Seal welded new diaphragm plate to the channel head.
4. Performed MT examination on the final seal weld. MT examination results acceptable.
5. Reinstalled flange cover and the bolting material.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0510

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ _____
Test Pressure 1135 psig, Test Temp. 200 °F
Component Design Pressure 1450 psig, Temp. 575 °F

9. Remarks:

None

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

Date 8-9 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 5-13-89 to 8/7/89, 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 8/28 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0511

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 8/7/89
   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 Residual Heat Removal (RHR) 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
RHR(1)-2C	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work:

Replaced existing snubbers with rigid struts for support RHR-304. The replacement work was performed as follows:

1. Removed both the snubbers.
2. Installed two (2) new rigid struts.
3. Installed undersized pins machined under Plan No. 2-0417-1.
4. Performed preservice inspections (PSI). PSI results satisfactory.

Notes:

*RHR(1)-2C-P1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0511

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:

See attached NF-2 Code Data Report for the following:

Support No.	NF-2 Serial No.
RHR-304 bottom	NA-2295-027-13
RHR-304 top	NA-2295-027-15

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

Date 8-9 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 5/17/89 to 7/19/89, 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 8/9 19 89

PLAN NO. 2-0511

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

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			SUPPORT NO.		SERIAL NO.	
(6)	THRU			RHR-304	BOTTOM	NA-2295-027-13	
(7)	NA-2295-027-21			RHR-304	TOP	NA-2295-027-15	
(8)							
(9)						Kuldip Singh	
(10)						6/26/89	

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 [signature] Commissions TEXAS 1186
(~~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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0516

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 8/9/89
   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 PI(1)-4S-X72F
5. (a) Applicable Construction Code ASME Section III 19 * Edition, * 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
PI(1)-4S-X72F	JCI	N/A	N/A	N/A	1983	Repaired	Yes; Class 2
PI-EFC-X72F	Dragon	GW1022	N/A	N/A	1978	Replacement	Yes, Class 1

7. Description of Work:

Replaced poppet assembly (disc) for valve PI-EFC-X72f. The replacement/repair work was performed as follows:

1. Cut existing pipe to valve socket weld.
2. Removed existing poppet assembly (disc) and installed new replacement assembly.
3. Made pipe to valve socket weld.
4. Performed PT examination on the final socket weld. PT examination results acceptable.

Notes:
*PI(1)-4S-X72f, 1974 Edition W75 Addenda.
*PI-EFC-X72f, 1974 Edition W76 Addenda.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0516

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 and replacement conforms to the rules of the ASME Code, Section XI.
(repair or replacement)

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed _____ (Owner or Owner's Designee,) Title Plant Technical Manager

Date 8-9 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 5/30/89 to 8/1/89, 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.

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

Date 8/9 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0517

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 8/9/89
   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 PI(1)-4S-X73e
5. (a) Applicable Construction Code ASME Section III 19 * Edition, * 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
PI(1)-4S-X73e	JCI	N/A	N/A	N/A	1983	Repaired	Yes, Class 2
PI-EFC-X73e	Dragon	GW1016	N/A	N/A	1978	Replacement	Yes, Class 1

7. Description of Work:

Replaced poppet assembly (disc) for valve PI-EFC-X73e. The replacement/repair work was performed as follows:

1. Cut existing pipe to valve socket weld.
2. Removed existing poppet assembly (disc) and installed new replacement assembly.
3. Made pipe to valve socket weld.
4. Performed PT examination on the final socket weld. PT examination results acceptable.

Notes:
*PI(1)-4S-X73e, 1974 Edition W75 Addenda.
*PI-EFC-X73e, 1974 Edition W76 Addenda.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0517

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 repair and 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. Finch 8/5/89.

Date 8-5 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 5/30/89 to 8/1/89, 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 8/9 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0521

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 8/9/89
   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) P.O. 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, 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
MS(1)-4C	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work:

Installed test connection on 30" main steam "C" line. The installation work was performed as follows:

1. Beveled valved ends and sockolet end.
2. Performed PT examination on the beveled ends. PT examinations results acceptable.
3. Installed sockolet, valve and made required welds.
4. Performed RT examination on the circumferential butt weld and PT examination on the sockolet to the pipe welds. RT and PT examination results acceptable.

Notes:
*MS(1)-4C-P3

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0521

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:

See attached NPV-1 Code Data Report for the following:

EPN No.	Serial No.
MS-V-769	17048

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 Eccles 8/3/89

Date 8-9 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 6/9/89 to 8/8/89, 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 8/9 19 89

PLAN No. 2-0521
MS-V-769, S/N 17048
Rudolph Sayb
7/12/77.

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. (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 3/4 Inch Gate Valve CS

Serial Numbers 17047 thru 17054 (8 valves)

(Brief description of service for which equipment was designed)

(a) Drawing No. 76700-1 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No.

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

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

Edition 1971, Addenda Date Winter '73, Case No.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate - Code 1P14 1M62	SA487 GRCA6NM	Rex Precision	
Casting- 75347		Waukesha	
Machined- 75348		NV Division	
(b) Forgings			
Body - Code 1J60 1K69	SA 105		
Forging - 70453		Pacific Forge	
Machined - 70474		NV Division	
Assembly - 75349		NV Division	
Bonnet - Code 1M28	SA 105	Compton Forge	
Forged Stock			
Machined - 73973-1L		NV Division	

REVIEWED MAY 16 1977 BECHTEL QUALITY CONTROL GY

REVIEWED APR 28 1982 BECHTEL QUALITY CONTROL

WBG OR 2 15-13536A

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

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Stem - Code 1M35	SA 564 Type 630		
Stock -		Jorgensen Steel	
Machined- 75323		NV Division	

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 January 6, 19 77 Signed Nuclear Valve Div. of Borg Warner (Manufacturer) By [signature]

Certificate of Authorization No. 1234 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 6 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 6 19 77

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

WBG BR 215-18536A

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0522

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 8/9/89
   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 Reactor Recirculation Cooling (RRC) 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
RRC(51)-4	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 1 (NF)

7. Description of Work:

Replaced missing nuts for u-bolt for support RRC-1C-900.

Notes:

*RRC(51)-4-P1

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0522

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 _____ (Owner or Owner's Designee.) Title Plant Technical Manager

K. Smith 7/25/89

Date 7-7 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 6/7/89 to 7/20/89, 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.

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

Date 8/9 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0527

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 8/11/89
   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
*	JCI	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work: Replaced missing U bolt and nuts for support serial numbers 163-4-001 and 320-2-100 for instrument line PI(1)-ST(1R-71)-13

Notes:

*PI(1)-ST(1R-71-13

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0527

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

8/11/89.

Date 8-11 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 7/10/89 to 8/11/89, 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 8-11 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0528

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 8/9/89
   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, 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
*	JCI	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work:

Installed missing hex head cap screw for support for three (3) valve manifold for MSLC-FT-3D.

Notes:
*PI(1)-ST-MSLC-FT-3D.

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. 2-0528

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 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 _____ (Owner or Owner's Designee.) Title Plant Technical Manager

Date 8-5 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 7/10/89 to 7/20/89, 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.

_____ (Inspector's Signature) Commissions 9357 W (National Board, State, and Endorsements)

Date 8/9/ 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT2730

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 6/21/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7078	N/A	N/A	1975	Replacement	Yes, Class 1
Piston Tube	GE	3211	N/A	N/A	1985	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7078, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New Piston Tube Assembly, S/N 3211, ASME Section III, Code Class 1, 1971 Edition with Summer 73 Addenda.

Disassembled CRD, S/N 7078 for overhaul. Performed PT examination on the cylinder tube and flange assembly, S/N 7078. PT examination results acceptable. Performed visual examination on the piston tube assembly, S/N 5516. Visual examination results were evaluated to be unacceptable. Reassembled CRD parts and installed new piston tube assembly, S/N 3211.

The overhauled CRD, S/N 7078, was installed on the reactor pressure vessel.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT2730

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:

See attached N-2 code data report for new piston tube assembly, S/N 3211.

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 6/13/89.

Date 6-19 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 1/8/88 to 6/21/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447 W B.N.I (National Board, State, and Endorsements)

Date 21 JUNE 19 89

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 General Electric Co., Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for ~~STOCK~~ WNP-2
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part 3211 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. 798D228G010 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected: Piston Tube Assembly

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date S'73, Case No. — Class 1

3. Remarks: Standard part for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi.

* Number of Sheets - 2

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

Date 7/18/ 19 85 Signed GE-NEPD-WMD By J. E. Stroudemire
(NPT Certificate Holder)

Certificate of Authorization Expires June 16, 1987 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GENERAL ELECTRIC CO., SAN JOSE, CALIF.

Stress analysis report on file at GENERAL ELECTRIC CO., SAN JOSE, CALIF.

Design specifications certified by Vernon W. Pence Prof. Eng. State Calif. Reg. No. 14488

Stress analysis report certified by Vernon W. Pence Prof. Eng. State Calif. Reg. No. 14488

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 North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 8/7 19 85, 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 8/7 19 85

E. R. Sherrill
Inspector's Signature

Commissions N.C. 723, PA.WC1766, OHIO
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

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

4. Shell: Material _____ (Kind & Spec. No.) T.S. _____ (Min. of Range Specified) Nominal Thickness ____ in. Corrosion Allowance ____ in. Dia. ____ ft. ____ in. Length ____ ft. ____ in

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

S/N 3211

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

Buildup 1/15/88

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 ogee end weld, bar, etc. If bar give dimensions, if bolted, 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. Material _____ (Kind & Spec. No.) Dia. _____ (Subject to pressure) Thickness ____ in. Attachment _____ (Welded, Bolted)

Floating. Material _____ Dia. _____ Thickness ____ in. Attachment _____

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

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

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

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

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

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

	Location	Thickness	Crown Radius	Knuckle Radius	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)

Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

14. Design pressure[2] _____ psi at _____ °F

Items below to be completed for all vessels where applicable.

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

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Openings: Manholes, No. _____ Size _____ Location _____
Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

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

[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 AT5071

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6727	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8540	N/A	N/A	1987	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 6727, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8540, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 6727, for overhaul. The existing cylinder tube and flange, S/N 6727, was replaced due to damage incurred during handling. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8540.

The overhauled CRD, S/N A8540 (old S/N 6727) ~~was installed on the reactor pressure vessel~~ placed in CRD spare pool (see note).

K Swp's 6/20/89.

6/20/89

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5071

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8540.

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 Ewers 6/19/89.

Date 6-19 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 5/24/88 to 6/20/89, 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.

David L. Vera (Inspector's Signature) Commissions 7447W B, N, I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

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: AB540 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 MWR AT5071

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75, Case No. 1361-2 Cases 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: 11/10, 19 87 Signed GE-NEBG-NF&CM-QA By J. E. Hardemann
(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 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 J. F. Shandler NC-779-PA.WC2L60 0410
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"

(10/77)

VERIFIED & ACCEPTED R. Weller 1-5-88
R.I. Inspector Date

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) AT 5071

5. Seams: Long_____ H.T.[1]_____ R.T._____ Efficiency_____ %
S/N A8540

Girth_____ H.T.[1]_____ R.T._____ No. of Courses_____

6. Heads: (a) Material_____ T.S._____ (b)Material_____ T.S._____ Final dip 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.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	Ticnkess	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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5853

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6319 ~~6243~~ KSmith 6/20/89. DLSam 6/20/89	N/A	N/A	1974	Replacement	Yes, Class 1

7. Description of Work:

Replaced existing ring flange cap screws (with damaged threads) with new replacement cap screws for CRD, S/N ~~6243~~ 6319, ASME Section III, Code Class 1, 1971 Edition with no Addenda.

KSmith 6/20/89.
DLSam 6/20/89

Notes:

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5853

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 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 _____ (Owner or Owner's Designee,) Title Plant Technical Manager

K Supis 6/17/89.

Date 6-19 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 3/15/89 to 6/20/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447W B, N, I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5854

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6326	N/A	N/A	1974	Replacement	Yes, Class 1
Piston Tube	GE	3224	N/A	N/A	1985	Replacement	Yes, Class 1

7. Description of Work:
   - Existing CRD, S/N 6326, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
   - New Piston Tube Assembly, S/N 3224, ASME Section III, Code Class 1, 1971 Edition with Summer 73 Addenda.

   Disassembled CRD, S/N 6326 for overhaul. Performed PT examination on the cylinder tube and flange assembly, S/N 6326. PT examination results acceptable. Performed visual examination on the piston tube assembly, S/N 5336. Visual examination results were evaluated to be unacceptable. Reassembled CRD parts and installed new piston tube assembly, S/N ~~6326~~ 3224 K Swiss 6/17/89. [illegible] 6/20/89

   Placed missing ring flange cap screws with new replacement cap screws for CRD, S/N 6326.

   The overhauled CRD, S/N 6326 was installed on the reactor pressure vessel.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5854

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:

See attached N-2 code data report for new piston tube assembly, S/N 3224.

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

6/19/89.

Date 6-19 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 11/10/88 to 6/20/89, 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 20 JUNE 19 89

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

MWR A-1 5854

1. (a) Manufactured by General Electric Co., Castle Hayne Rd., Wilmington, N.C. (Name and address of NPT Certificate Holder) 6/17/89.

(b) Manufactured for ~~STOCK~~ WNP-2 (Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part 3224 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. 798D228G010 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Piston Tube Assembly

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date S'73; Case No. — Class 1

3. Remarks: Standard part for use with reactor. (Brief description of service for which component was designed)

Hydrostatically tested at 1825 psi.

* Number of Sheets - 2

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

Date 7/18/ 19 85 Signed GE-NEPD-WMD (NPT Certificate Holder) By J. Ettrudenmier

Certificate of Authorization Expires June 16, 1987 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GENERAL ELECTRIC CO., SAN JOSE, CALIF.

Stress analysis report on file at GENERAL ELECTRIC CO., SAN JOSE, CALIF.

Design specifications certified by Vernon W. Pence Prof. Eng. State Calif. Reg. No. 14488

Stress analysis report certified by Vernon W. Pence Prof. Eng. State Calif. Reg. No. 14488

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 North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 8/7 19 85 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 8/7 19 85

E L Sherrill Inspector's Signature Commissions N.C. 723, PA.WC1766, OHIO 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

FORM N-2 (back)

AT 5854

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

4. Shell: Material _____ T.S. _____ Nominal Thickness ____ in. Corrosion Allowance ____ in. Dia. ____ ft. ____ in. Length ____ ft. ____
(Kind & Spec. No.) (Min. of Range Specified)

S/N 3224

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

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

Rudolp 1/15/88

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 ogee end-weld, bar, etc. If bar give dimensions, if bolted, 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. Material _____ (Kind & Spec. No.) Dia. _____ (Subject to pressure) Thickness ____ in. Attachment _____ (Welded, Bolted)

Floating. Material _____ Dia. _____ Thickness ____ in. Attachment _____

10. Tubes: Material _____ O.D. ____ in. Thickness _____ inches or gage. Number _____ Type _____ (Str. or U)

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

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

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

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

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

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

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

14. Design pressure[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	How Attached

17. Inspection Openings: Manholes, No. _____ Size _____ Location _____
Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

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

[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 AT5858

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 6/21/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6743	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8659	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 6743, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8659, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 6743, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8659.

The overhauled CRD, S/N A8659 (old S/N 6743), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5858

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8659.

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 Sundy 6/17/89

Date 6-19- 1989

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 11/10/88 to 6/21/89, 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 B.N.I (National Board, State, and Endorsements)

Date 21 JUNE 1989

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: A8659 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

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)

S/N A 8659
Kulaip Gupta
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_____ 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.
(KindàSpec.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 (b)Channel	Ticnkess	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
	_____	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____	_____

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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5859

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7043	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	GE	A8478	N/A	N/A	1989	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7043, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8478, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 7043, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8478.

The overhauled CRD, S/N A8478 (old S/N 7043), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5859

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8478.

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. Swift 6/17/89

Date 6-19 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 11/10/88 to 6/20/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447W B, N, I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

MWR AT 5859
Quality Supply
6/17/89.

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: A8478 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, 1989 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 of 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, 1989 [signature] NC 779, PA.WC2L60, OHS:
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] 2-16-89
R.I. Inspector Date

AT 5859

S/N A8478
Rudolph Swift
6/13/8

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 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	Ticnkess	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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5860

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7044	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	GE	A8652	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7044, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8652, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 7044, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8652.

The overhauled CRD, S/N A8652 (old S/N 7044), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5860

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8652.

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 Sweb 6/17/89.

Date 6-19 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 11/10/88 to 6/20/89, 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.

David L. Vance Inspector's Signature Commissions 7447 W B, N, I National Board, State, and Endorsements

Date 20 JUNE 19 89

NWR AT 5860
Quality Supt
6/17/89

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: 7A8652 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 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)

A15860 S/N A 8652

Guldip Gupta 11/21

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 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	Tienkess	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 coninicident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5864

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 6/21/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7212	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8668	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7212, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8668, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 7212, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8668.

The overhauled CRD, S/N A8668 (old S/N 7212), was installed on the reactor pressure vessel (see note).

Notes:
Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5864

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8668.

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 6/17/89.

Date 6-19 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 11/10/88 to 6/21/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447 W B.N.I (National Board, State, and Endorsements)

Date 21 JUNE 19 89

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

.. ufactured & 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: A8668 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 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 nspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR f STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this artial Data Report on 5/27 1988, and state that to the best of my knowledge nd belief, the NPT Certificate Holder has constructed this part in accordance with the ASME ode Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, xpressed or implied, concerning the part described in the Partial Data Report. Furthermore, either the Inspector nor his employer shall be liable in any manner for any personal injury r 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
ATE Inspector's Signature National Board, State, Province and No.

Su mental sheets in form of lists, sketches or drawing may be used provided (1) size is 8- X 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) eac heet is numbered and number of sheets is recorded in Item 3. "REMARKSs"

10/77)

S/N A 8668
Guldip Singh
11/21/8

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 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	Ticnkess	Crown Radius	Knucle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Fat Diameter	Side to Press (Conv.or Conc.)
(b)Channel								

If resovable, 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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5865

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7227	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8658	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7227, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8658, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRd, S/N 7227, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8658.

The overhauled CRD, S/N A8658 (old S/N 7227), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5865

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8658.

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

6/17/89

Date 6-17 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 11/10/88 to 6/20/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447W B.N.I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

MWR AT 5865
Dulaip Sups
6/17/89.

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: A8658-1 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 of 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 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"

(1[illegible])

AT 5865 S/N A 8658

Kulaip Engr 11/21/

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 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	Ticnkess	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 coninicident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5867

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 6/21/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7353	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8664	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7353, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8664, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 7353, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8664.

The overhauled CRD, S/N A8664 (old S/N 7353), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT 5867

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8664.

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. Eugh 6/12/89.

Date 6-19 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 11/10/88 to 6/21/89, 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 B, N, I (National Board, State, and Endorsements)

Date 21 JUNE 19 89

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: A8664 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 of 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)

S/N A 8664
Rudolph Engr's
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_____ 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	Ticnkess	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
at temp. of _____ °F

14. Design pressure[2]_____ psi at_____ °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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5868

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 6/21/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7361	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8662	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7361, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8662, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 7361, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8662.

Replaced existing ring flange cap screws (with damaged threads) with new replacement cap screws for CRD, S/N A8662 (old S/N 7361).

The overhauled CRD, S/N A8662 (old S/N 7361), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT5868 8 KSm 6/17/

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8662.

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 6/17/89.

Date 6-17 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 11/10/89 to 6/21/89, 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 21 JUNE 19 89

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: A8662 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 or furnishing a separate Design Specification and Stress Report if the appurtenance is not ncluded in the component Design Specification and Stress Report).

ATE: 5/27, 19 88 Signed GE-NEBG-NF&CM-QA By
(NPT Certificate Holder)

er/ate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

esign information on file at GE COMPANY, SAN JOSE, CALIFORNIA

tress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA

C22A6253 Rev. 0
esign specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570

C22A6254 Rev. 0.
tress 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 nspectors 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 artial Data Report on 5/27 19 88, and state that to the best of my knowledge nd belief, the NPT Certificate Holder has constructed this part in accordance with the ASME ode Section III.

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

5/27, 19 88 — N.C. 723, PA.WC1766, OHIO

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

Sup mental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-½ x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) eac eet is numbered and number of sheets is recorded in Item 3. "REMARKSs"

0/77)

S/N A8662

Rudolph Supp 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_____ 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	Ticnkess	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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8010

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 8/17/89
   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 — 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 Reactor Core Isolation Cooling
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, ____ 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
RCIC(1)-4CL2	WPPSS	N/A	N/A	N/A	1984	Replacement	Yes, Class 2

7. Description of Work:

Replaced snubber on hanger RCIC-100(E) with new snubber.
Replacement snubber information is as follows:

PSA-1/2 S/N 2536, this snubber removed from MS-2619-319 which was deleted as part of snubber optimization at R-4.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8010

FORM NIS-2 (Back)

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

9. Remarks:

Reference documents MWR AT-8010.

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 R L Vaeney (Owner or Owner's Designee.) Title Plant Technical Manager

Date Aug 17 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 1/25/89 to 8/25/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447-W B, N, I (National Board, State, and Endorsements)

Date AUGUST 25, 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 8/17/89
   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 — N/A Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 Geo. Wash. Way, Richland, WA
4. Identification of System Reactor Water Cleanup
5. (a) Applicable Construction Code ASME Section ASME III 19 71 Edition, W73 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
RWCU(3)-4	WPPSS	N/A	N/A	N/A	1984	Modification	Yes, Class 1

7. Description of Work:

Deleted snubber for hanger RWCU-1C-12
Deleted strut for hanger RWCU-1C-11

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 R L Young (Owner or Owner's Designee) Title Plant Technical Manager

Date Aug 17 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 4/20/89 to 8/25/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447-W B.N.I (National Board, State, and Endorsements)

Date 25 AUGUST 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 8/17/89
   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 — N/A (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 Geo. Wash. Way, Richland, WA
4. Identification of System Residual Heat Removal
5. (a) Applicable Construction Code ASME Section ASME III 19 71 Edition, W73 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
RHR(1)-2A	WPPSS	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work:

Deleted snubber for hanger RHR-272

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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:

Reference document MWR AT-8011

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 R L Young (Owner or Owner's Designee,) Title Plant Technical Manager

Date Aug 17 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 4/20/89 to 8/25/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447-W B, N, I (National Board, State, and Endorsements)

Date 25 AUGUST 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 8/17/89
   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 — N/A Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 Geo. Wash. Way, Richland, WA
4. Identification of System Residual Heat Removal
5. (a) Applicable Construction Code ASME Section ASME III 19 71 Edition, W73 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
RHR(4)-1A	WPPSS	N/A	N/A	N/A	1984	Modification	Yes, Class 2

7. Description of Work:

Deleted snubbers for hangers RHR-145 and RHR-147

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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:
Reference document MWR AT-8011

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 R L Koenig (Owner or Owner's Designee) Title Plant Technical Manager

Date Aug 17 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 4/20/89 to 8/25/89, 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.

Daniel L. Vance (Inspector's Signature) Commissions 7447-W B, N, I (National Board, State, and Endorsements)

Date 25 AUGUST 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 8/17/89
   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 — N/A Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 Geo. Wash. Way, Richland, WA
4. Identification of System Reactor Water Cleanup
5. (a) Applicable Construction Code ASME Section ASME III 19 71 Edition, W73 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
RWCU(1)-4	WPPSS	N/A	N/A	N/A	1984	Modification	Yes, Class 3

7. Description of Work:
Deleted snubber for hanger RWCU-925N

Notes:

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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:

Reference document MWR AT-8011

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 R L Koenig (Owner or Owner's Designee) Title Plant Technical Manager

Date Aug 17 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 4/20/89 to 8/25/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447-W B.N.I (National Board, State, and Endorsements)

Date AUGUST 25 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 8/17/89
   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 — N/A Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 Geo. Wash. Way, Richland, WA
4. Identification of System Standby Liquid Control
5. (a) Applicable Construction Code ASME Section ASME III 19 71 Edition, W73 Addenda, None Code Case
   (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, _____
   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
SLC(2)-4S	WPPSS	N/A	N/A	N/A	1984	Modification	Yes, Class I

7. Description of Work:

Deleted snubber for hanger SLC-4453-69

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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:

Reference document MWR At-8011

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 R L Koenig (Owner or Owner's Designee,) Title Plant Technical Manager

Date Aug 17 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 4/20/89 to 8/25/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447-W B. N. I (National Board, State, and Endorsements)

Date AUGUST 25 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 8/17/89
   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 — N/A (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 Geo. Wash. Way, Richland, WA
4. Identification of System Reactor Recirculation Cooling
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, 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
RRC(51)-4	WPPSS	N/A	N/A	N/A	1984	Modification	Yes, Class 1

7. Description of Work:

Deleted snubbers for hangers RRC-1C-2, RRC-1C-3, RRC-1C-4, RRC-1C-9, RRC-1C-10, RRC-1C-13, RRC-1C-14 and RRC-1C-15

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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:

Reference document MWR AT-8011

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 R L Koenig (Owner or Owner's Designee,) Title Plant Technical Manager

Date Aug 17 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 4/20/89 to 8/25/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447-W B, N, I (National Board, State, and Endorsements)

Date AUGUST 25 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 8/17/89
   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 — 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 Main Steam
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, 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
MS(1)-4D	WPPSS	N/A	N/A	N/A	1984	Modification	Yes, Class 2

7. Description of Work:

Deleted snubbers for hangers MS-56, MS-86, MS-908N, MS-1006N and MS-1007N.

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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:

Reference document MWR AT-8011.

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 R L Yaeger 8/17/89 (Owner or Owner's Designee.) Title Plant Technical Manager

Date Aug 17 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 4/20/89 to 8/25/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447-W B.N.I (National Board, State, and Endorsements)

Date August 25 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 8/17/89
   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 — N/A (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 Geo. Wash. Way, Richland, WA.
4. Identification of System Reactor Water Cleanup
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, 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
RWCU(3)-4	WPPSS	N/A	N/A	N/A	1984	Modification	Yes, Class 2

7. Description of Work:

Deleted snubbers for hanger RWCU-900N and RWCU-926N

Notes:

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 R L Koenig (Owner or Owner's Designee) Title Plant Technical Manager

Date Aug 17 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 4/20/89 to 8/25/89, 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.

David L. Clemens (Inspector's Signature) Commissions 7447-W B, N, I (National Board, State, and Endorsements)

Date AUGUST 25 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT-8011

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 8/17/89
   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 — N/A Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) WPPSS
   Work Performed by (Address) 3000 Geo. Wash. Way, Richland, WA.
4. Identification of System Main Steam
5. (a) Applicable Construction Code ASME Section ASME III 19 71 Edition, W73 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
MS(1)-4A	WPPSS	N/A	N/A	N/A	1984	Modification	Yes, Class 1

7. Description of Work:

Deleted snubbers for hangers MS-2619-12, MS-2619-15, MS-2619-23, MS-2619-42B, MS-2619-316, MS-2619-317, MS-2619-321 and MS-2619-322

Deleted spring hangers MS-2619-212, MS-2619-213 and MS-2619-315

Notes:

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR-AT-8011

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:

Reference document MWR AT-8011

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 R R Voss (Owner or Owner's Designee.) Title Plant Technical Manager

Date Aug 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 4/20/89 to 8/25/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447-W B.N.I (National Board, State, and Endorsements)

Date AUGUST 25 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8156

PPM TP 10.5.7

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 7/11/89
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 1 of 3
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 Control Rod Drives (CRD's)
5. (a) Applicable Construction Code ASME Section III 19 * Edition, * Addenda, * 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
CRD's	GE	**	N/A	N/A	*	Replacement	Yes; Class 1

7. Description of Work:

Replaced forty (40) control rod drives (CRD's). The replacement work was performed as follows:

1. Removed forty (40) existing CRDs.
2. Installed replacement CRDs.
3. Installed replacement bolting (cap screws) for the CRD flange connections listed on Sheet 3.
4. Torqued the bolting (cap screws) for the CRD flange connections to the required torque valve.
5. Performed pressure test on CRD flange connections including the replaced CRD flange connections. Some leakage was observed during pressure test. The leakage was determined to be acceptable.

Notes:

*, ** See Sheets 2 and 3 for Code Edition, Addenda, Code Case, Manufacturer Serial No. and Year Built.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8156

PPM TP 10.5.7

FORM NIS-2 (Back)

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

Test Pressure 1005* psig, Test Temp. 540 °F

(RPV) Component Design Pressure 1250 psig, Temp. 575 °F

9. Remarks:

N-2 Code Data Report for the replacement CRD serial numbers 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 between 950 psig and 1005 psig during visual examinations.

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

7/7/89.

Date July 11 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 6/27/88 to 6/27/89, 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 11 July 19 89

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8156

PPM TP 10.5.7

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
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 2 of 3
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 Control Rod Drives (CRD's)
5. (a) Applicable Construction Code ASME Section III 19 * Edition, * Addenda, * 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 (continued from Sheet 1)

Core Location	CRD Removed Serial No.	Code Year & Addenda	CRD Replaced Serial No.	Code Year & Addenda	Year Built	Code Case
02-35	7179	71	A8664	74W75	1988	1361-2
02-43	7185	71	A8743	74W75	1988	1361-2
02-47	6108	71	6396	71	1974	1361-1
10-11	5812	71	7492	71	1975	1361-1
14-15	6446	71	7177	71	1975	1361-1
14-47	7084	71	A8659	74W75	1988	1361-2
18-07	4835	71	A8668	74W75	1988	1361-2
18-11	6638	71	A8478	74W75	1989	1361-2
18-31	6291	71	6326	71	1974	1361-1
18-35	A8517	74W75	A8554	74W75	1988	1361-2
18-51	6306	71	A8658	74W75	1988	1361-2
18-59	6519	71	7330	71	1975	1361-1
22-15	6746	71	6319	71	1974	1361-1
22-19	6542	71	5648	71	1974	1361-1
22-39	6455	71	7165	71	1975	1361-1
22-47	6456	71	A8652	74W75	1988	1361-2
22-59	6021	71	7144	71	1975	1361-1
26-11	7113	71	6439	71	1974	1361-1
26-39	7274	71	6592	71	1975	1361-1
30-03	6410	71	6456	71	1974	1361-1
30-07	6181	71	A8710	74W75	1988	1361-2
30-19	6597	71	A8721	74W75	1988	1361-2
30-31	6654	71	5485	71	1974	1361-1
30-35	A8548	74W75	6158	71	1974	1361-1
30-51	6687	71	A8662	74W75	1988	1361-2
34-43	4608	71	4835	71	1974	1361-1
38-03	6709	71	A8713	74W75	1988	1361-2
38-07	7320	71	6108	71	1974	1361-1
38-15	6505	71	6291	71	1974	1361-1
38-55	7684	71	A8591	74W75	1988	1361-2
42-59	7326	71	6455	71	1974	1361-1

Notes:

*See Item 6 above for Code Edition, Addenda and Code Case.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8156

PPM TP 10.5.7

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
   Owner (Address) 3000 George Washington Way, Richland, WA — Sheet 3 of 3
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 Control Rod Drives (CRD's)
5. (a) Applicable Construction Code ASME Section III 19 * Edition, * Addenda, * 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 (continued from Sheet 2)

Core Location	CRD Removed Serial No.	Code Year & Addenda	CRD Replaced Serial No.	Code Year & Addenda	Year Built	Code Case
46-19	A8503	74W75	6446	71	1974	1361-1
46-55	2989	71	6542	71	1974	1361-1
50-15	A8540	74W75	A8548	74W75	1987	1361-2
50-43	7339	71	6021	71	1974	1361-1
54-39	6717	71	A8745	74W75	1988	1361-2
54-47	6200	71	7084	71	1975	1361-1
58-23	7026	71	6746	71	1975	1361-1
58-35	6309	71	7274	71	1975	1361-1
22-15	6319	71	7179	71	1975	1361-1

7. Description of work: (continued from Sheet 1)
   3) Bolting (cap screws) was replaced for the following CRD flanged connections.

Core Location	CRD Serial No.	No. Replaced
22-39	7165	8
26-11	6439	8
30-31	5485	8
30-35	6158	2
18-35	A8554	8
22-15	6319	7
02-43	A8743	8
34-43	4835	8
38-55	A8591	4
42-59	6455	4
46-55	6542	4
50-15	A8548	4
50-43	6021	4
54-39	A8745	4
54-47	7084	4
58-23	6746	4
58-35	7274	4

Notes:

*See Item 6 above for Code Edition, Addenda and Code Case.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8375

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	5812	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	GE	A8554	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 5812, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8554, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 5812, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8554.

The overhauled CRD, S/N A8554 (old S/N 5812), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8375

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8554.

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 6/12/89.

Date 6-19 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 5/18/89 to 6/20/89, 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 JUNE 20 19 89

MWR AT 8375
Rudolf Swift
6/17/89

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: A8554 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 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 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"

(10/77)

VERIFIED & ACCEPTED [signature] III
1-18-89
R.I. Inspector Date

A-1 8375 S/N A 8554 Eulalip Grp's 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_____
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 (a)Top, Bottom, End	Tienkess	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

PLAN NO. MWR AT8379

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6638	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8721	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 6638, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8721, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 6638, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8721.

The overhauled CRD, S/N A8721 (old S/N 6638), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT 8379

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8721.

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

6/17/89

Date 6-19 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 5/17/89 to 6/20/89, 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.

David L. Jones Inspector's Signature Commissions 7447W B.N.I National Board, State, and Endorsements

Date 20 JUNE 19 89

MWR A+ 8379
Unlap Supt
6/12/89.

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: A8721 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 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 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, 19 88 [signature] NC 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] 1-18-89
R.I. Inspector Date

A-T 8379 S/N A8721 Kulaip Corp's 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 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	Ticnkess	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 coinincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8382

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6306	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8745	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 6306, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8745, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 6306, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8745.

The overhauled CRD, S/N A8745 (old S/N 6306), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8382

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8745.

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

Date 6-19 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 5/16/89 to 6/20/89, 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.

David L. Vance (Inspector's Signature) Commissions 7447W B, N, I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

MWR A18382
Buildup Supb
6/17/89.

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: A8745 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 (NPT Certificate Holder) By [signature]

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, 19 88 [signature] NC 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] 1-18-89
R.I. Inspector Date

AT 8382 S/N A 8745
Lucaup Sup's
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 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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8383

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6519	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	GE	A8743	N/A	N/A	1988	Replacement	Yes, Class 1
Piston Tube	GE	2941	N/A	N/A	1985	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 6519, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New Piston Tube Assembly, S/N 2941, ASME Section III, Code Class 1, 1971 Edition with Summer 73 Addenda.
- New Cylinder Tube and Flange, S/N A8743, ASME Section III, Code Class 1, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 6519, for overhaul. Performed PT examination on the cylinder tube and flange assembly, S/N 6519. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly, S/N 5483. Visual examination results were evaluated to be unacceptable. Reassembled CRD parts and installed new piston tube assembly, S/N 2941 and new cylinder tube and flange, S/N A8743.

The overhauled CRD S/N A8743 (old S/N 6519), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8383

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:

See attached N-2 Code Data Report for new piston tube assembly, S/N 2941.

See attached N-2 Code Data Report for new cylinder tube and flange, S/N A8743.

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 _____ (Owner or Owner's Designee) Title Plant Technical Manager

K Gupta 6/19/89.

Date 6-19 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 5/12/89 to 6/20/89, 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.

_____ (Inspector's Signature) Commissions 7447 W B.N.I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

MWR AT 8383
Rulaip Sumpts
6/17/89

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: A8743 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 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 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] NC 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

AT 8383 S/N A8743 Buildup Engr 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 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	Tienkess	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 conincident temperature when applicalbe.

0 0 1 7 7 0 3 0 0 0

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

MWR A1 8383

1. (a) Manufactured by General Electric Co., Castle Hayne Rd., Wilmington, N.C. Building Supp.
(Name and address of NPT Certificate Holder)

(b) Manufactured for ~~STOCK~~ WNP-2
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part 2941 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. 798D228G010 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Piston Tube Assembly

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date S'73, Case No. — Class 1

3. Remarks: Standard part for use with reactor.
(Brief description of service for which component was designed)

Hydrostatically tested at 1825 psi.

* Number of Sheets - 2

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

Date 2/18/ 19 85 Signed GE-NEPD-WMD By J. Ettordemmie
(NPT Certificate Holder)

Certificate of Authorization Expires June 16, 1987 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GENERAL ELECTRIC CO., SAN JOSE, CALIF.

Stress analysis report on file at GENERAL ELECTRIC CO., SAN JOSE, CALIF.

Design specifications certified by Vernon W. Pence Prof. Eng. State Calif. Reg. No. 14488

Stress analysis report certified by Vernon W. Pence Prof. Eng. State Calif. Reg. No. 14488

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 North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 2/4 19 85, 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 2/21 19 85 N.C. 723, PA.WC1766, OHIO

E. P. Liberoff Commissions
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 1-2 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

FORM N-2 (back)

AT 8383

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

4. Shell: Material _____ (Kind & Spec. No.) T.S. _____ (Min. of Range Specified) Nominal Thickness ____ in. Corrosion Allowance ____ in. Dia. ____ ft. ____ in. Length ____ ft. ____

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

S/N 2941

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 ogee and weld, bar, etc. If bar give dimensions, if bolted, 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. Material _____ (Kind & Spec. No.) Dia. _____ (Subject to pressure) Thickness ____ in. Attachment _____ (Welded, Bolted)

Floating. Material _____ Dia. _____ Thickness ____ in. Attachment _____

10. Tubes: Material _____ O.D. ____ in. Thickness _____ inches or gage. Number _____ Type _____ (Str. or U)

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

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

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-l
at temp. of _____ °

Items below to be completed for all vessels where applicable.

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

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Openings: Manholes, No. _____ Size _____ Location _____
Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

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

[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 AT8389

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7113	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8713	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7113, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8713, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 7113, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8713.

The overhauled CRD, S/N A8713 (old S/N 7113), was installed on the reactor pressure vessel (see note).

Notes:
Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8389

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8713.

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

6/17/89

Date: 6-19 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 5/23/89 to 6/20/89, 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.

David L. Vana (Inspector's Signature) Commissions: 7447W B, N, I (National Board, State, and Endorsements)

Date: 20 JUNE 19 89

MWR AT8389
Building Sup's
6/17/89

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: A8713 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, 19 88 [signature] NC 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] 1-18-89
R.I. Inspector Date

AT 8389 S/N A8713 Kuldip Singh 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 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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8392

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6181	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	GE	A8748	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 6181, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8748, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 6181, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8748.

The overhauled CRD, S/N A8748 (old S/N 6181) placed in CRD spare pool ~~was installed on the reactor pressure vessel~~ (see note).

6/20/89

6/20/89

Notes:
Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8392

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8748.

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

Date 6/17/89. 6-19 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 5/31/89 to 6/20/89, 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 B.N.I National Board, State, and Endorsements

Date 20 JUNE 19 89

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: [redacted] 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, 19 88 [signature] NC 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] III
1-18-89
R.I. Inspector Date

S/N A8748
Rulaip Sanjs
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 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	Ticnkess	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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8393

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6597	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8552	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 6597, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8552, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 6597, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8552.

The overhauled CRD, S/N A8552 (old S/N 6597) ~~was installed on the reactor pressure vessel~~ placed in CRD spare pool (see note).

K. Curtis 6/20/89

D.A. Lamm 6/20/89

Notes:
Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8393

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8552.

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

Date 6/13/89. 6-19 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 5/31/89 to 6/20/89, 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.

David L. Jane (Inspector's Signature) Commissions 7447W B, N, I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

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: [redacted] 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] NC 779, PA WC2L6D, 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

S/N A 8552
Rudip Eng's
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 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	Tienkess	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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8394

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6654	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8710	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 6654, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8710, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 6654, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8710.

The overhauled CRD, S/N A8710 (old S/N 6654), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8394

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8710.

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 6/17/89

Date 6-19 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 5/19/89 to 6/20/89, 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.

David L. Vonn (Inspector's Signature) Commissions 7447 W B.N.I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

MWR AT 8394
Building Supts
6/17/89.

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: A8710 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"

(10/77)

VERIFIED & ACCEPTED [signature] 1-18-89
R.I. Inspector Date

AT 8394 S/N A8710 Guldrup Eng'b 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	Tienkess	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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8396

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	6687	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8591	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 6687, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8591, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 6687, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8591.

The overhauled CRD, S/N A8591 (old S/N 6687), was installed on the reactor pressure vessel (see note).

Notes:

Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8396

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8591.

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 6/17/89.

Date 6-19 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 5/16/89 to 6/20/89, 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.

David L. Vana (Inspector's Signature) Commissions 7447 W B.N.I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

MWR A7 8396
Pulaski Supt
6/17/89.

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: A8591 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 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 772, 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

A 78396

S/N A 8591
Kuldip Singh
1/19/

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 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	Ticnkess	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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8402

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7684	N/A	N/A	1977	Replacement	Yes, Class 1
CT&F	GE	A8740	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7684, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N 8740, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 7684, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be acceptable, however the cylinder tube and flange assembly was replaced due to mechanical problem (cooling water orifice stuck). Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8740.

The overhauled CRD, S/N A8740 (old S/N 7684) ~~was installed on the reactor pressure vessel~~ placed in CRD spare pool (see note).

K. Gripp 6/20/89
D.L. Vann 6/20/89

Notes:
Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8402

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8740.

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

6/12/89.

Date 6-19 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 6/5/89 to 6/20/89, 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.

David L. Crane (Inspector's Signature) Commissions 7447 W B.N.I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

MWR AT 8402
Kuldip Gupta
6/17/89.

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: [illegible] 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 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 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 P&W C2L60, 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

AT 8402.

S/N A-8740
Dulap Sims
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 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	Tienkess	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

PLAN NO. MWR AT8407

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 6/20/89
   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 Control Rod Drive (CRD)
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, 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
CRD	GE	7339	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8750	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7339, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8750, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N ~~7684~~ 7339 K Swis 6/20/89, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be acceptable, however the cylinder tube and flange assembly was replaced due to mechanical problem (cooling water orifice stuck). Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8750.

The overhauled CRD, S/N A8750 (old S/N 7339) ~~was installed on the reactor pressure vessel~~ placed in CRD spare pool (see note).

K. Swis 6/20/89
D.L. Vance 6/20/89

Notes:
Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8407

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8750.

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

Date 6-19 1989

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 6/5/89 to 6/20/89, 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.

David L. Vance Inspector's Signature Commissions 7447 W B, N, I National Board, State, and Endorsements

Date 20 JUNE 1989

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: 7A8750 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
(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 of 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 J F Thomdyke ND 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 D L Miller III 1-18-89
R.I. Inspector Date

S/N A 8750
Kulaip Gurb
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 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	Ticnkess	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 conincident temperature when applicalbe.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8410

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 6/20/89
   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 Control Rod Drive (CRD).
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, 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
CRD	GE	7026	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8738	N/A	N/A	1988	Replacement	Yes, Class 1

7. Description of Work:

- Existing CRD, S/N 7026, ASME Section III, Code Class 1, 1971 Edition with no Addenda.
- New cylinder tube and flange assembly, S/N A8738, ASME Section III, Code Class I, 1974 Edition with Winter 75 Addenda.

Disassembled CRD, S/N 7026, for overhaul. Performed PT examination on the cylinder tube and flange assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new cylinder tube and flange assembly, S/N A8738.

The overhauled CRD, S/N A8738 (old S/N 7026) ~~was installed on the reactor pressure vessel~~ placed in CRD spare pool (see note).

6/20/89.
6/20/89

Notes:
Cylinder tube and flange serial number is the manufacturer's serial number for identifying the entire CRD assembly.

968-22684 (9/87)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

PLAN NO. MWR AT8410

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:

See attached N-2 Code Data Report for new cylinder tube and flange assembly, S/N A8738.

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

6/17/89

Date 6-19 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 5/30/89 to 6/20/89, 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.

David L. Cance (Inspector's Signature) Commissions 7447 W B, N, I (National Board, State, and Endorsements)

Date 20 JUNE 19 89

FORM N-2 NPT CERTIFICATE BOILERS' 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: [illegible] 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 (NPT Certificate Holder) By [signature]

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 of 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] NC 779, PAWC2L60, 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] 1-16-89
R.I. Inspector Date

S/N A8738
Kulaip Sup's
1/19/89.

FORM M-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	Ticnkess	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 conincident temperature when applicalbe.

EGG-NTA-8178
Revision 1

TECHNICAL EVALUATION REPORT

INSPECTION OF WNP-2: IMPLEMENTATION OF COMMITMENTS TO REGULATORY GUIDE 1.97

Docket No. 50-397

Alan C. Udy

Published September 1988

Idaho National Engineering Laboratory
EG&G Idaho, Inc.
Idaho Falls, Idaho 83415

Prepared for the
U.S. Nuclear Regulatory Commission
Washington, DC 20555
Under DOE Contract No. DE-AC07-76ID01570
FIN No. D6042

ABSTRACT

This EG&G Idaho, Inc., report documents the inspection of WNP-2 for the implementation of the licensee's commitment to Regulatory Guide 1.97, Revision 2.

Docket No. 50-397

FOREWORD

This report is supplied as part of the "Regional Technical Assistance Support," Project V-1, being conducted for the U.S. Nuclear Regulatory Commission, Office of Nuclear Reactor Regulation, Division of Engineering and System Technology, by EG&G Idaho, Inc., Electrical, Instrumentation, and Control Systems Evaluation Unit.

The U.S. Nuclear Regulatory Commission funded the work under authorization B&R 20-19-04-01.

Docket No. 50-397

CONTENTS

INSPECTION OF WNP-2: IMPLEMENTATION OF COMMITMENTS TO REGULATORY GUIDE 1.97

1.0 INTRODUCTION

On May 16 through May 20, 1988, a special announced inspection of representative subsystems of the post-accident instrumentation monitoring system was held at the Washington Nuclear Project, Unit No. 2 (WNP-2). The inspection assessed the conformance of the WNP-2 instrumentation with the commitments previously made to Regulatory Guide 1.97, Revision 2. J. F. Melfi (lead inspector) of NRC Region V and A. C. Udy of EG&G Idaho, Inc., participated in the inspection.

Areas examined during this inspection are described in the remainder of this report. Within these areas, the inspection consisted of selective examinations of procedures, representative records and drawings, interviews with personnel, and observations by the inspectors.

2.0 INSPECTION OBJECTIVES

The purpose of this inspection was to compare the installed plant instrumentation with the commitments contained in correspondence related to post-accident instrumentation, as described in the licensee's submittals to the NRC, in the Final Safety Analysis Report (FSAR), and in the NRC Safety Evaluation Report (SER). This inspection also assessed whether the instrumentation meets the criteria specified in Regulatory Guide 1.97. The specific references used to assess the licensee's conformance to Regulatory Guide 1.97 were:

- Regulatory Guide 1.97, Revision 2, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Assess Plant and Environs Conditions During and Following an Accident."

- Safety Evaluation Report (SER), NRC memo (Joyce to Knighton), August 18, 1987, with Technical Evaluation Report prepared for the NRC by EG&G Idaho, Inc., "Conformance to Regulatory Guide 1.97, Washington Public Power Supply System, Nuclear Project Number 2, February 1986, EGG-EA-6963.

- Washington Nuclear Project No. 2 (WNP-2) Final Safety Analysis Report (FSAR), Chapter 7.

NRC Generic Letter 82-33 issued Supplement No. 1 to NUREG-0737, which specified requirements regarding emergency response capability. This supplement also discussed the application of Regulatory Guide 1.97 to the emergency response facilities, including the Control Room (CR), Technical Support Center (TSC) and Emergency Operations Facility (EOF) at nuclear power plants. The Washington Public Power Supply System (the licensee) provided their response to Generic Letter 82-33 on April 15, 1983. The response by the licensee for Regulatory Guide 1.97 was provided by letters dated October 8, 1985, October 14, 1985, and January 23, 1986.

Specific information on the instrumentation inspected is shown below in Section 3. Except as noted, the requirements for Category 1 and Category 2 instruments were met.

3.0 EVALUATION

The inspectors held discussions with various members of the licensee's staff (Appendix A), examined drawings (Appendix B) and system descriptions, performed selected system walkdowns, and examined control room instruments, to assess the implementation of the commitments delineated in Regulatory Guide 1.97, Revision 2, at WNP-2. For the Category 1 instrumentation, power is supplied by Class 1E 120 VAC vital instrument buses.

The following instrumentation was examined.

3.1 Neutron Flux

The licensee has determined that this is a Type A variable. A Type A variable provides primary information required to permit the control room operator to take specific, manual actions for which no automatic control is provided. These actions are required for the safety systems to accomplish their safety functions for design basis events. Neutron flux is also a Type B variable. Category 1 instrumentation is required for this variable as Type A and as Type B. The neutron flux recorders indicate over the range of zero to 100 percent of full power, and the signal processor has a log scale of 10^{-8} percent to 200 percent of full power and a linear scale of 0 percent to 200 percent of full power. The instrumentation automatically switches from the pulse mode to the current mode for continuous indication. Information on the neutron flux instrumentation is as follows.

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
WRM-DET-1	Detector	1	Class I	--	--
WRM-EAMP-1	Preamp	1	Class I	PP7B-C	--
WRM-AMP-1	Sig. Processor	Mild	Class I	PP7A-A	10^{-8} to 200% log 0 to 200% linear
WRM-LR-1	Recorder	Mild	Class I	PP7A-A	0 to 100% linear

1. QID number is not issued. Progress on the environmental qualification of this system is presently being reported to the NRC quarterly.

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
WRM-DET-2	Detector	1	Class I	--	--
WRM-EAMP-2	Preamp	1	Class I	PP8A-E	--
WRM-AMP-2	Sig. Processor	Mild	Class I	PP8A-1	10^{-8} to 200% log 0 to 200% linear
WRM-LR-2	Recorder	Mild	Class I	PP8A-A	0 to 100% linear

Inspection Findings

The neutron flux level is available to the operator on continuous linear scale recorders and continuous log scale and linear scale indicators. With the exception of environmental qualification, the neutron flux instrumentation was found to meet the Category 1 recommendations specified in Regulatory Guide 1.97, Revision 2. Environmental qualification of this system is ongoing, with quarterly reports required to be provided to the NRC to detail progress in the qualification efforts. Because of the lack of environmental qualification, this instrumentation is not yet a part of the ongoing surveillance program. Power ascension testing has established preliminary calibration data for the chambers.

3.2 Coolant Level in Reactor

The licensee has determined this variable to be Type A. This Category 1 instrumentation is used to assure core cooling by monitoring the amount of core coolant and the trend (increase or decrease) in the coolant level. Instruments with overlapping ranges are used to cover the range recommended by the regulatory guide. Also, as accepted by the WNP-2 SER, the instrumentation that measures above the wide range instruments is not Category 1. Information on the reactor coolant level instrumentation is as follows.

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
B22-N026A	Transmitter	156011	Class I	--	Wide Ramge
B22-R623A	Recorder	Mild	Class I	PP7A-A	-150 to + 60 in.
B22-N026D	Transmitter	156011	Class I	--	Wide Range
B22-R623B	Recorder	Mild	Class I	PP8A-A	-150 to +60 in.

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
MS-LT-44A	Transmitter	156011	Class I	--	Wide Range
MS-LR-615	Recorder	Mild	Class I	PP7A-A	-310 to -110 in.
MS-LT-44B	Transmitter	156011	Class I	--	Fuel Zone
MS-LI-610	Indicator	Mild	Class I	PP8A-A	-310 to -110 in.
RFW-DPT-17	Transmitter	None	Class II	DP-SI-2A (125VDC)	--
RFW-LR-608	Recorder	Mild	Class II	PP7A-A	0 to 180 in.
MS-LR-27	Transmitter	156003	Class I	--	--
MS-LI-605	Indicator	Mild	Class I	PP-8A-Z	0 to 400 in.

Inspection Findings

The instrumentation for the variable coolant level in the reactor is available to the operator on instrumentation with overlapping ranges. One channel of the fuel zone range (-310 inches to -110 inches) is indicated; the other channel is recorded. Both channels of wide range instruments (-150 inches to +60 inches) are recorded. Coverage from zero to +180 inches is recorded (but not on Category 1 instrumentation). Coverage from zero to 400 inches is indicated on a single channel that is environmentally and seismically qualified. This arrangement was accepted by the NRC in the WNP-2 SER for Regulatory Guide 1.97. The instrumentation was found to be in calibration. The inspectors found the instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.3 Reactor Coolant System (RCS) Pressure

The licensee has determined this to be a Type A variable. This Category 1 instrumentation is used, in part, to identify events and to verify that mitigation is being accomplished. Information on the RCS pressure instrumentation is as follows.

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
B22-N051A	Transmitter	156009	Class I	PP7A-A	--
B22-R623A	Recorder	Mild	Class I	PP7A-A	0 - 1500 psig
MS-PI-9	Indicator	Mild	Class I	PP7A-A	0 - 1500 psig
B22-N051B	Transmitter	156009	Class I	PP8A-A	--
B22-R623B	Recorder	Mild	Class I	PP8A-A	0 - 1500 psig

Inspection Findings

Both channels of the RCS pressure instrumentation are available to the operator on dedicated recorders. The A channel also has an indicator. The RCS pressure instrumentation meets the Category 1 recommendations specified in Regulatory Guide 1.97, Revision 2. The instrumentation was found to be in calibration. The inspectors found the instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.4 Drywell/Primary Containment Pressure

The licensee has determined that the instrumentation for this variable is Type A. The Category 1 channels provided cover the ranges of -5 psig to +3 psig, zero to 25 psig, and zero to 180 psig. These ranges together cover the ranges recommended by Revision 2 of Regulatory Guide 1.97 (-5 psig to 4 times the design pressure for a steel containment structure). This instrumentation is used to monitor post-accident containment conditions and the performance of those engineered safety features designed to control the post-accident containment environment. Information on the pressure transmitters and recorders for this variable is as follows.

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
CMS-PT-1	Transmitter	156009	Class I	PP7A-A	0 to 25 psig
CMS-PT-5	Transmitter	156009	Class I	PP7A-A	0 to 180 psig
CMS-PR-1	2 Ch. Recorder	Mild	Class I	PP7A-A	Red - 0 to 25 psig Blue - 0 to 180 psig

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
CMS-PT-7	Transmitter	156009	Class I	PP7A-A	--
CMS-PR-7	Recorder	Mild	Class I	PP7A-A	-5 to +3 psig
CMS-PT-2	Transmitter	156009	Class I	PP8A-A	0 to 25 psig
CMS-PT-6	Transmitter	156009	Class I	PP8A-A	0 to 180 psig
CMS-PR-2	2 Ch. Recorder	Mild	Class I	PP8A-A	Red - 0 to 25 psig Blue - 0 to 180 psig
CMS-PT-8	Transmitter	156009	Class I	PP8A-A	--
CMS-PR-8	Recorder	Mild	Class I	PP8A-A	-5 to +3 psig

Inspection Findings

The above instrumentation was found to be suitably used for both the drywell pressure and the primary containment pressure variables. The inspectors noted that recorders CMS-PR-1 and 2 are dual pen recorders. The red pen indicates the zero to 25 psig range; the blue pen indicates the zero to 180 psig range. Each recorder is located adjacent to recorders CMS-PR-7 and 8 respectively, with the -5 to +3 psig range. The instrumentation was found to meet the Category 1 recommendations specified in Regulatory Guide 1.97, Revision 2. This instrumentation was found to be in calibration. The inspectors found the instrumentation acceptable in meeting the Regulatory Guide 1.97 recommendations.

3.5 Suppression Pool Water Level

Regulatory Guide 1.97 recommends Category 1 instrumentation for this variable. Revision 2 of Regulatory Guide 1.97 recommends a range of from the 'bottom of the ECCS suction line to 5 ft. above normal water level' (Type C variables) and from the 'top of vent to top of weir wall' (Type D variables). The licensee's instrumentation consists of two distinct ranges. The narrow range is centered at the normal level with a range of -25 inches to + 25 inches. The wide range instruments cover a range from 2

feet to 52 feet. The licensee's documentation provides assurance that the provided wide range is inclusive of the recommended ranges. The narrow range instrumentation is used for normal operations of the suppression pool. Information on the suppression pool water level transmitters and recorders is as follows.

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
CMS-LT-1	Transmitter	209007	Class I	PP7A-A	-25 to +25 inches
CMS-LT-6A	Transmitter	195013	Class I	PP7A-A	2 to 52 feet
CMS-LR-3	Recorder	Mild	Class I	PP7A-A	Blue: +/-25 inches Red: 2 to 52 feet
CMS-LT-2	Transmitter	209007	Class I	PP8A-A	-25 to +25 inches
CMS-LT-6B	Transmitter	195013	Class I	PP8A-A	2 to 52 feet
CMS-LR-5	Recorder	Mild	Class I	PP8A-A	Blue: +/-25 inches Red: 2 to 52 feet

Inspection Findings

The suppression pool water level is displayed to the operator on two independent recorders. Each recorder displays a narrow range (blue pen, -25 inches to +25 inches of normal level) indication and a wide range (red pen, 2 feet to 52 feet) indication. We note that the wide range does not correspond to the range (65 feet) listed in the Final Safety Analysis Report (FSAR). This error is in the process of being corrected. Amendment 39 corrects this listing to 2 to 52 feet. The instrumentation was found to meet the Category 1 recommendations specified in Regulatory Guide 1.97, Revision 2. This instrumentation was found to be in calibration. The inspectors found the instrumentation for the variable suppression pool water level acceptable in meeting the recommendations of Regulatory Guide 1.97.

3.6 Hydrogen Concentration

Regulatory Guide 1.97 recommends Category 1 instrumentation for this variable. Some of the uses for this instrumentation include long term surveillance of the containment for potentially explosive concentrations

of hydrogen and to determine that accident mitigation is being accomplished successfully. Information on the containment hydrogen concentration instrumentation is as follows.

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
CMS-H2E-1301	Det./Chambers	025002	Class I	--	--
CMS-CP-1301	Analyzer	025002	Class I	PP7A-A	--
CMS-H2R-1	Recorder	Mild	Class I	PP7A-A	0 to 30%
CMS-H2E-1401	Det./Chambers	025002	Class I	--	--
CMS-CP-1401	Analyzer	025002	Class I	PP8A-A	--
CMS-H2R-2	Recorder	Mild	Class I	PP8A-A	0 to 30%

Inspection Findings

The containment hydrogen concentration is available to the operator on two separate recorders. We note that the analyzers are common with the oxygen concentration instrumentation specified in Regulatory Guide 1.97, Revision 2. The hydrogen concentration instrumentation was found to be in calibration. The inspectors found the instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.7 Oxygen Concentration

Regulatory Guide 1.97 recommends Category 1 instrumentation for this variable. It is used to determine the oxygen content of the containment atmosphere, which is inerted with nitrogen for power operation of the reactor. In conjunction with hydrogen concentration, oxygen concentration is used to determine the potential for explosion or combustion of the post-accident containment atmosphere. Information on the containment oxygen concentration instrumentation is as follows.

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
CMS-02E-1302	Det./Chamber	025002	Class I	--	--
CMS-CP-1301	Analyzer	025002	Class I	PP7A-A	--
CMS-02R-1	Recorder	Mild	Class I	PP7A-A	0 to 30%

Tag Number	Function	EQ Listed	Seismic Listed	Power Division	Instrument Range
CMS-02E-1402	Det./Chamber	025002	Class I	--	--
CMS-CP-1401	Analyzer	025002	Class I	PP8A-A	--
CMS-02R-2	Recorder	Mild	Class I	PP8A-A	0 - 30%

Inspection Findings

The containment oxygen concentration is available to the operator on two separate recorders. We note that the analyzers are common with the hydrogen concentration instrumentation. The instrumentation was found to meet the Category 1 recommendations specified in Regulatory Guide 1.97, Revision 2. The oxygen concentration instrumentation was found to be in calibration. The inspectors found the instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.8 Suppression Pool Water Temperature

Regulatory Guide 1.97 recommends Category 2 temperature instrumentation to monitor the operation of the suppression pool. Information on the licensee's instrumentation for this variable is as follows.

Tag Number	Function	EQ Listed	Power Division	Instrument Range
CMS-TE-41	Thermocouple	339002	--	--
CMS-TE-44	Thermocouple	339002	--	--
CMS-TR-3	Recorder	Mild	120V @ Board J	0 to 400°F
CMS-TE-42	Thermocouple	339002	--	--
CMS-TE-43	Thermocouple	339002	--	--
CMS-TR-4	Recorder	Mild	120V @ Board J	0 to 400°F

Inspection Findings

The inspectors found that this Category 2 instrumentation is qualified for Class I seismic conditions. The temperature of the suppression pool water is displayed to the operator on two recorders; each recorder has two

indications of temperature for separate locations. The instrumentation was found to meet the Category 2 recommendations specified in Regulatory Guide 1.97, Revision 2. The suppression pool water temperature instrumentation was found to be in calibration. The inspectors found this instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.9 Drywell Atmosphere Temperature

Regulatory Guide 1.97 recommends Category 2 instrumentation for this variable to indicate the accomplishment of containment cooling. The range supplied, 50°F to 400°F, does not satisfy the range recommended by the regulatory guide (40°F to 440°F). However, this range was accepted by the NRC in the WNP-2 SER for Regulatory Guide 1.97. Information on the drywell atmosphere temperature instrumentation is as follows.

Tag Number	Function	EQ Listed	Power Division	Instrument Range
CMS-TE-1	Thermocouple	050814	--	Typical
CMS-MV/I-1	Sig. Converter	Mild	PP8A-A	Typical
CMS-SUM-1	Summer/Averager	Mild	PP8A-A	50 - 400°F
CMS-TR-5	Recorder	Mild	PP8A-A	50 - 400°F
CMS-TE-3	Thermocouple	050814	--	Typical
CMS-MV/I-3	Sig. Converter	Mild	PP7A-A	Typical
CMS-SUM-2	Summer/Averager	Mild	PP7A-A	50 - 400°F
CMS-TR-6	Recorder	Mild	PP7A-A	50 - 400°F

Inspection Findings

The temperature of the drywell is displayed to the operators on the above recorders. Both bulk (average) temperature and a single chosen spot temperature are recorded. The instrumentation was found to meet the recommendations specified in Regulatory Guide 1.97, Revision 2. The drywell atmosphere temperature instrumentation was found to be in calibration. The inspectors found this instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.10 Reactor Core Cooling System Flow

Regulatory Guide 1.97 recommends Category 2 instrumentation to monitor the flow of the reactor core isolation cooling (RCIC) system. This measurement is used to monitor the operation of the RCIC system. Information on the RCIC flow instrumentation is as follows.

Tag Number	Function	EQ Listed	Power Division	Instrument Range
RCIC-FT-3	Transmitter	156005	--	--
RCIC-SQRT-601	Sq. Rt. Transmitter	Mild	125V DC DP-SI-1A	--
RCIC-FIC-600	Indicating Controller	Mild	125V DC DP-SI-1A	0 - 600 gpm
RCIC-FI-600/1	Indicator	Mild	--	0 - 700 gpm

Inspection Findings

The flow indicating controller indicates a flow of zero to 600 gpm rather than the zero to 700 gpm indicated on RCIC-FI-600/1. This latter indicator is said to be the indicator specified as post-accident instrumentation, and includes the overrange capability recommended by Regulatory Guide 1.97. The narrower scale of the controller is needed for more accurate control of the flow setpoint. The instrumentation was found to meet the recommendations specified in Regulatory Guide 1.97, Revision 2. The RCIC flow instrumentation was found to be in calibration. The inspectors found this instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.11 Core Spray Flow

Regulatory Guide 1.97, Revision 2, recommends Category 2 flow instrumentation to monitor this safety system. Information on the core spray (LPCS) flow instrumentation is as follows.

Tag Number	Function	EQ Listed	Power Division	Instrument Range
LPCS-FT-3	Transmitter	156005	--	--
RHR-SRU-1A	Sq. Rt. Extractor	Mild	PP7A-A	--
LPCS-FJ-600	Indicator	Mild	PP7A-A	0 to 8500 gpm

Inspection Findings

We note that this instrumentation is qualified for Class I seismic conditions. The instrumentation was found to meet the Category 2 recommendations specified in Regulatory Guide 1.97, Revision 2. The core spray instrumentation was found to be in calibration. The inspectors found this instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.12 Standby Liquid Control System Flow

Regulatory Guide 1.97 recommends Category 2 instrumentation for this variable to monitor the operation of the Standby Liquid Control System (SLCS). Information on the SLCS flow instrumentation is as follows.

Tag Number	Function	EQ Listed	Power Division	Instrument Range
SLC-FT-1	Transmitter	156009	--	--
SLC-SQRT-1	Sq. Rt. Extractor	Mild	PP8A-A	--
SLC-FI-1	Indicator	Mild	PP8A-A	0 to 100 gpm

Inspection Findings

We note that the indicated range (zero to 100 gpm) does not correspond to the range (zero to 50 gpm) listed in the FSAR. This error is in the process of being corrected. Amendment 39 corrects this listing to zero to 100 gpm. The instrumentation was found to meet the Category 2 recommendations specified in Regulatory Guide 1.97, Revision 2. This instrumentation was found to be in calibration. The inspectors found the instrumentation for the variable SLCS flow acceptable in meeting the recommendations of Regulatory Guide 1.97.

3.13 SLCS Storage Tank Level

Regulatory Guide 1.97 recommends Category 2 instrumentation for this variable to monitor the operation of the SLCS. Information on the SLCS storage tank level instrumentation is as follows.

Tag Number	Function	EQ Listed	Power Division	Instrument Range
SLC-LT-1	Transmitter	Mild	PP-8A-Z	--
SLC-LI-601	Indicator	Mild	--	0 to 5000 gal.

Inspection Findings

We note that this instrumentation is qualified for Class I seismic conditions. The instrumentation was found to meet the Category 2 recommendations specified in Regulatory Guide 1.97, Revision 2. The SLCS storage tank level instrumentation was found to be in calibration. The inspectors found this instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.14 Residual Heat Removal System Flow

Regulatory Guide 1.97 recommends Category 2 instrumentation for this variable to monitor operation of the residual heat removal (RHR) system. Information on the RHR system flow instrumentation is as follows.

Tag Number	Function	EQ Listed	Power Division	Instrument Range
RHR-FT-15A	Transmitter	156009	--	--
E12A-SQU-1A	Sq. Rt. Extractor	Mild	PP7A-A	--
RHR-FI-603A	Indicator	Mild	--	0 to 10,000 gpm
RHR-FI-4AR	Indicator	Mild	--	0 to 10,000 gpm
RHR-FT-15B	Transmitter	156009	--	--
E12A-SRU-1A	Sq. Rt. Extractor	Mild	PP7A-E	--
RHR-FI-603B	Indicator	Mild	--	0 to 10,000 gpm
RHR-FT-15C	Transmitter	156009	Uses E12A-SRU-1A	--
RHR-FI-603C	Indicator	Mild	as power source and sq. rt. extractor	0 to 10,000 gpm

Inspection Findings

We note that this instrumentation is qualified for Class I seismic conditions. Category 2 instrumentation does not require independence, therefore, using E12A-SRU-1A as power supply and square root extractor for

both the B and C channels is acceptable. The instrumentation was found to meet the Category 2 recommendations specified in Regulatory Guide 1.97, Revision 2. The RHR flow instrumentation was found to be in calibration. The inspectors found the instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations.

3.15 Status of Standby Power

Regulatory Guide 1.97 recommends Category 2 instrumentation to monitor the status of standby power. The following instrumentation was verified to be in the control room. All of this instrumentation is located in a mild environment.

Tag Number	Range	Tag Number	Range
HPCS-VM-R610	Zero to 5.25 KV AC	EM-VM-SL71	Zero to 600 VAC
DG-VM-DG1/A	Zero to 5.25 KV AC	EM-VM-SL73	Zero to 600 VAC
DG-VM-DG1/B	Zero to 5.25 KV AC	EM-VM-SL81	Zero to 600 VAC
DG-VM-DG1/C	Zero to 5.25 KV AC	EM-VM-SL83	Zero to 600 VAC
DG-VM-DG2/A	Zero to 5.25 KV AC		
DG-VM-DG2/B	Zero to 5.25 KV AC	EM-VM-PP7A	Zero to 300 VAC
DG-VM-DG2/C	Zero to 5.25 KV AC	EM-VM-PP8A[1]	Zero to 300 VAC
EM-VM-SM7/A1	Zero to 5.25 KV AC		
EM-VM-SM8/A1	Zero to 5.25 KV AC	EM-VM-DPS2/1	Zero to 300VAC
HPCS-VM-R618	Zero to 150 VDC	EM-VM-PP/SO/A	Zero to 30 VDC
EM-VM-DPS1/1	Zero to 150 VDC	EM-VM-DP/SO/B	Zero to 30 VDC
EM-VM-DPS1/2	Zero to 150 VDC		
HPCS-AM-B1	-75 to 0 to 75 Amp DC	E-AM-IN2/A	Zero to 100 A AC
HPCS-AM-C1	Zero to 75 Amp DC	E-AM-IN3/A	Zero to 100 A AC
HPCS-AM-R607	Zero to 600 Amp AC	E-AM-IN2/B	Zero to 100 A AC
E-AM-CO/1A/1B	Zero to 50 Amp DC	E-AM-IN3/B	Zero to 100 A AC
E-AM-CO/2A/2B	Zero to 50 Amp DC	E-AM-7/71	Zero to 400 A AC
E-AM-BO/1A/1B	Zero to 40 Amp DC	E-AM-7/73	Zero to 400 A AC
E-AM/BO/2A/2B	Zero to 40 Amp DC	E-AM-8/81	Zero to 400 A AC
E-AM-C1/1	Zero to 300 Amp DC	E-AM-8/83	Zero to 400 A AC
E-AM-C1/2	Zero to 300 Amp DC	E-AM-DG1	Zero to 1.2K Amp AC
E-AM-C2/1	Zero to 300 Amp DC	E-AM-DG2	Zero to 1.2K Amp AC
E-AM-B1/1	200-0-1000 Amp DC[2]		
E-AM-B1/2	200-0-1000 Amp DC[2]		
E-AM-B2/1	200-0-1000 Amp DC[2]		

1. Meter was mislabeled for bus B.

2. Meters were not labeled for charge/discharge.

Inspection Findings

As footnoted in the above table, some meters were anomalistic. These meters were mentioned to the licensee. Also, most of the meters were labeled by bus only, and not with the instrument tag number. These anomalities were brought to the attention of the licensee. Verbal agreement was given that these anomalities should be corrected. Other than this, the instrumentation was found to meet the Category 2 recommendations of Regulatory Guide 1.97, Revision 2. All of the instrumentation that displays the status of standby power was found to be in calibration within normal time limits of the specified interval. The inspectors found this instrumentation acceptable for meeting the Regulatory Guide 1.97 recommendations with the exception of the labeling of the indicators. The labeling is an item that will be followed up in a future Region V inspection report.

4.0 SURVEILLANCE, TESTING, AND CALIBRATION

For the instruments selected, the inspectors asked for the frequency of calibration, the date last calibrated, the next calibration date, and the procedure used for that instrument calibration. This is summarized in Appendix C. All of the Regulatory Guide 1.97 instrumentation inspected was found to be in calibration at the time of the inspection.

5.0 CONCLUSIONS

The inspectors met with the licensee representatives identified in Appendix A at an exit meeting on May 20, 1988. The scope of the inspection and findings as described in this report were discussed.

Region V will issue a follow-up report regarding the labeling of the status of standby power instrumentation.

6.0 REFERENCES

1. Regulatory Guide 1.97, Revision 2, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Access Plant and Environs Conditions During and Following an Accident," December 1980.

2. Safety Evaluation Report Memo, NRC (Joyce to Knighton), August 18, 1987 with Technical Evaluation Report, "Conformance to Regulatory Guide 1.97, Washington Public Power Supply System, Nuclear Project Number 2," February 1986, EGG-EA-6963, EG&G Idaho, Inc., Idaho National Engineering Laboratory, Idaho Falls, ID 83415.

3. Washington Nuclear Project No. 2 (WNP-2) Final Safety Analysis Report (FSAR), Chapter 7.

4. Drawings as listed in Appendix B.

5. Regulatory Guide 1.97, Revision 3, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Access Plant and Environs Conditions During and Following an Accident," May 1983.

APPENDIX A

Persons Contacted

Washington Public Power Supply System

P. Adair	Engineering Associate
J. D. Arbuckle*	Compliance Engineer
R. J. Barbee	Plant Technical Supervisor - I&C
J. W. Baker*	Assistant Plant Manager
G. W. Brastad	General Engineering - Electrical
J. Civay	Principle Engineer
D. S. Feldman*	Plant QA/QC Manager
A. Hosler*	NSAG Manager
A. Joshi	Engineering
R. L. Koenigs*	Assistant Technical Manager
P. Powell	Licensing Manager
C. M. Powers*	WNP-2 Plant Manager
G. C. Sorensen*	Regulatory Program Manager
S. L. Washington*	Compliance Engineer
R. L. Webanz*	Plant Technical Supervisor
M. Widmeyer	Senior I&C Manager
D. L. Williams*	Nuclear Engineer (BPA)
K. Wise	Equipment Engineering

US NRC

C. Bosted*	Senior Resident Inspector
C. Caldwell	Resident Inspector

State of Washington

W. Fitch*	Executive Secretary, Energy Facility Site Evaluation Council

*Attended Exit Meeting May 20, 1988

APPENDIX B

Instrument Schematics & Drawings

Variable	Drawing Nos.	Revision
Neutron Flux	EWD-16E-104	0
	EWD-16E-105	0
Coolant Level in Reactor & RCS Pressure	807E152TC Sh. 12	--
	EWD-1E-061	8
	EWD-1E-062	9
	M529	55
Primary Containment/Drywell Pressure	25I-020	4
	25I-021	1
	M634-43-J20	2
	M631-43-J73	1
Suppression Pool Water Level	25I-002	0
	25I-020	2
	25I-021	1
	25I-022	6
Hydrogen/Oxygen Concentration	25I-018	4
	25I-019	5
Suppression Pool Water Temperature	M634-19-V1 thru V24	Various
	E705	6
	E702	5
Drywell Atmosphere Temperature	M634-43-J92	5
	E702 Sh. 14	5
RCIC Flow	6E017	8
LPCS Flow	EWD-8E-002	7
SLCS Flow/Storage Tank Level	10E-009	8
RHR Flow	EWD-9E-109	9

APPENDIX C

Maintenance and Calibration Data

For Inspected Variables

Variable	Instrument Number	Frequency	Last Calibration	Next Calibration	Procedure
Neutron Flux	1	1	1	1	1
Coolant Level in Reactor	MS-LR/PR/623A	18M	02/18/88	07/16/89	7.4.3.7.5.15
	MS-LR/PR-623B	18M	04/17/88	07/16/89	7.4.3.7.5.16
	MS-LI-610/LR-615	18M	04/24/88	07/18/89	7.4.3.7.5.37
RCS Pressure	MS-LR/PR-623A/B	18M	11/17/87	04/20/89	7.4.3.7.5.2
Primary Cont./Drywell Pressure	CMS-PR-1	18M	09/21/87	03/14/89	7.4.3.7.5.6
	CMS-PR-2	18M	09/22/87	03/14/89	7.4.3.7.5.6A
	CMS-PR-7/8	18M	09/14/87	03/14/89	7.4.3.7.5.6B
Suppression Pool Water Level	CMS-LR-3 Narrow	18M	11/07/87	03/26/89	7.4.3.7.5.3
	Wide	12M	06/04/87	04/15/88[2]	7.4.3.7.5.31
	CMS-LR-5 Narrow	18M	11/07/87	03/26/89	7.4.3.7.5.3
	Wide	12M	06/04/87	04/15/88[2]	7.4.3.7.5.31
Hydrogen/Oxygen Concentration	CMS-H2R/02R-1	90D	01/29/88	07/21/88[3]	7.4.3.7.5.8
	CMS-H2R/02R-2	90D	04/16/88	07/13/88	7.4.3.7.5.9
Suppression Pool Water Tempeature	SPTM-TR-3	18M	02/21/88	08/04/89	7.4.3.7.5.4.A
	SPTM-TR-4	18M	02/23/88	08/04/89	7.4.3.7.5.4.B
Drywell Atmosphere Temperature	CMS-TR-5/6	18M	10/10/87	03/21/89	7.4.3.7.5.7
	CMS-TR-3/4	18M	09/23/87	03/21/89	7.4.3.7.5.5

1. This instrumentation will have an 18 month recalibration interval after it is declared operational. It has had pre-operational power ascension testing in accordance with Procedure 8.3.79. The surveillance procedure is yet to be prepared and is dependent on modifications for full environmental qualification.
2. Though the due date has been exceeded, the recalibration interval has not at the time of the audit. With the unit in refueling shutdown, this pending calibration is acceptable.
3. This instrumentation is not required for shutdown conditions and will be calibrated prior to power accession following the current refueling outage. With the unit in refueling outage, this pending calibration is acceptable.

Variable	Instrument Number	Frequency	Last Calibration	Next Calibration	Procedure
RCIC Flow	RCIC-FI-600/1	12M	04/27/87 (last) 05/07/88 (current)	04/14/89	7.4.3.7.5.18
LPCS Flow	LPCS-FI-600	18M	09/12/87	03/12/89	7.4.3.7.5.21
SLCS Flow	SLC-FI-1	18M	10/17/87	04/17/89	7.4.3.7.5.22
SLCS Storage Tank Level	SLC-LI-601	18M	10/17/87	04/17/89	7.4.3.7.5.23
RHR Flow	RHR-FI-603A/B/C	18M	02/09/87	05/05/89	7.4.3.7.5.24
Status of Standby Power					
0-5.25K Vac	HPCS-VM-R610	12M	04/14/87 (last) 05/03/88 (current)	04/15/89	7.4.3.7.55
	DG-V 4M-DG1/A/B/C	12M	04/28/87 (last) 05/06/88 (current)	04/15/89	7.4.3.7.5.47
	DG-VM-DG2/A/B/C	12M	02/28/88	04/15/89[4]	7.4.3.7.5.48
	SM7/A1	12M	02/26/88	04/15/89[4]	7.4.3.7.5.43
	SM8/A1	12M	02/28/88	04/15/89[4]	7.4.5.7.5.44
0-600V AC	E-VM-SL-71/73/81/83	12M	04/22/87 (last) 05/10/88 (current)	04/15/89	7.4.3.7.5.45
0-300V AC	E-VM-PP7AA/PP8AA	12M	04/22/87	04/15/88[3]	7.4.3.7.5.46
0-300V DC	E-VM-DPS2/1	12M	04/29/87 (last) 05/08/88 (current)	05/15/89	7.4.3.7.5.51
0-150V DC	HPCS-VM-R618	3Y	04/02/86	03/31/89	NCP-88-140
	E-VM-DPS1/1	12M	05/06/88	05/15/89	7.4.3.7.5.52
	E-VM-DPS1/2	12M	05/05/88	05/15/89	7.4.3.7.5.53

4. This is within acceptable tolerance of the 12 month interval.

Variable	Instrument Number	Frequency	Last Calibration	Next Calibration	Procedure
0-30V DC	E-VM-DP/SO/A/B	3Y	05/10/86	07/01/88	NCP-88-140
Ammeters	HPCS-AM-B1/C1	3Y	04/03/86	03/31/89	NCP-88-140
	E-AM-CO/1A/1B/2A/2B	3Y	05/10/86	07/01/88	NCP-88-140
	E-AM-BO/1A/1B/2A/2B	3Y	05/10/86	07/01/88	NCP-88-140
	E-AM-B1/1 & C1/1	12M	05/29/87 (last) 05/05/88 (current)	04/15/89	7.4.3.7.5.53
	E-AM-B1/2 & C1/2	12M	05/08/87 (last) 05/06/88 (current)	04/15/89	7.4.3.7.5.52
	E-AM-B2/1 & C2/1	12M	05/29/87 (last) 05/08/88 (current)	04/15/89	7.4.3.7.5.51
	E-AM-IN2/A&B	3Y	05/20/86	03/31/89	NCP-88-140
	E-AM-IN3/A&B	3Y	05/07/86	03/31/89	NCP-88-140
	E-AM-7/71 & 73	12M	04/22/87 (last) 05/08/88 (current)	04/15/89	7.4.3.7.5.50
	E-AM-8/81 & 83	12M	04/22/87 (last) 05/08/88 (current)	04/15/89	7.4.3.7.5.50
	DG-AM-DG1	12M	04/18/87 (last) 05/06/88 (current)	04/15/89	7.4.3.7.5.30
	DG-AM-DG2	12M	05/23/87	04/15/88[3]	7.4.3.7.5.32
	HPCS-AM-R607	12M	04/14/87 (last) 05/04/88 (current)	04/15/89	7.4.3.7.5.58
Pressure	CIA-PI-21A	18M	09/14/86	03/14/88[3]	NCP-88-140
	CIA-PI-21B	18M	09/14/86	03/14/88[3]	NCP-88-140

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This EG&G Idaho, Inc., report documents the inspection of the Washington Nuclear Project, Unit No. 2, for the implementation of the licensee's commitment to Regulatory Guide 1.97, Revision 2.

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