WASHINGTON PUBLIC POWER SUPPLY SYSTEM

Nuclear Project

No. 2

PRESERVICE INSPECTION

SUMMARY REPORT

SUPPLEMENT NO. 1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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PRESERVICE INSPECTION SUMMARY REPORT
SUPPLEMENT NO. 1
FOR THE
SUPPLY SYSTEM NUCLEAR PROJECT NO. 2

OWNER: Washington Public Power Supply System
3000 George Washington Way
Richland, Washington 99352

PLANT: WNP-2, located 11 miles north of Richland, Washington on the U.S. Department of Energy Hanford Reservation

COMMERCIAL SERVICE DATE: December 13, 1984

CAPACITY: 1145 MWe

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

Prepared by:	Douglas P. Ramey ISI Engineer	1/18/85 Date
Reviewed by:	T F Hoyle ISI Lead Engineer	1/22/85 Date
	Kim J. Hammack Manager, ISI/NDE	1/22/85 Date
	D. W. Porter Manager, Engineering Systems Support	1/22/85 Date
	K J Cowan Manager, Plant Technical	2/13/85 Date
	D Mobley Manager, Plant QA	2-13-85 Date
Approved by:	C M Powers WNP-2 Plant Manager	2/13/85 Date
Concurrence:	A. M. Fasano Authorized Nuclear Inspector	2/14/85 Date

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Washington Public Power Supply System
3000 George Washington Way, P. O. Box 968, Richland, 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) OWN-102

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	T-45	29936-84W	CBIN-8
RHR-HX-1A	Delta Southern Co.	35009-74-1	29911-84W	3489
RHR-HX-1B	Delta Southern Co.	35009-74-2	29912-84W	3490
RHR-P-2A	Ingersoll-Rand	0473113	N/A	51
RHR-P-2B	Ingersoll-Rand	0473111	N/A	47
RHR-P-2C	Ingersoll-Rand	0473112	N/A	49
RRC-P-1A	Bingham-Willamette	210099	N/A	134
RRC-P-1B	Bingham-Willamette	210100	N/A	135
Large Bore Piping	ITT Grinnell Industries & Associated Piping & Engineers	(1)	(1)	(1)
(1) Specific details of the extent of the examinations of the piping systems and associated components are described in the WNP-2 PSI Program Plan.				

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

FORM NIS-1 (back)

8. Examination Dates 11/18/76 to 1/18/85 9. Inspection Interval from Preservice to _____

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Pages 3, 4 and 5.

11. Abstract of Conditions Noted. See Pages 3, 4 and 5.

12. Abstract of Corrective Measures Recommended and Taken See Pages 3, 4 and 5.

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

TFH 1/22/85 1-18-85

Date 1/22/85 February 13 19 85 Signed WPPSS (Owner) By C.W. Powers

Certificate of Authorization No. (if applicable) OWN-102 Expiration Date 9/30/87

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Washington and employed by *LMC of Illinois have inspected the components described in this Owners' Data Report during the period Preservice to 1/18/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date 2/14 19 85

[signature] Commissions 7486 / 7486 W

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

*Lumbermens Mutual Casualty Co.

FORM NIS-1

1. Owner: Washington Public Power Supply System, 3000 George Washington Way, P.O. Box 968, Richland, Washington 99352
2. Plant: WNP-2, Hanford Reservation, Benton County, Washington
3. Plant Unit: WNP-2 4. Owner Certificate of Authorization: OWN-102
5. Commercial Service Date: 12/13/84 6. National Board Number: N/A

10. Abstract of Examinations

11. Abstract of Conditions Noted See Below

12. Abstract of Corrective Measures Recommended and Taken

This Preservice Inspection data report covers examinations of components listed in the WNP-2 Preservice Inspection Program Plan (PSI Plan) up to and including amendment No. 4 to the Plan. All recordable indications have been evaluated and either found to be acceptable or repaired. The results of these examinations and the NIS-2 data forms for repairs and replacements are contained in the Preservice Inspection Summary Report and its Supplement.

REACTOR PRESSURE VESSEL

A manual ultrasonic (UT) examination of the RPV shell was performed by Nuclear Energy Services (NES). The remainder of the vessel examinations (manual UT and liquid dye penetrant (PT) were completed by Lambert, MacGill, Thomas, Inc. (LMT). LMT performed a limited mechanized examination of the vessel. A visual examination (VT-1/VT-3) of the PRV internal surfaces, core support structures and internal attachments was performed by the Supply System.

A number of recordable indications due to mid-plate segregates were found in five (5) areas in the vessel by both NES (using manual techniques) and LMT (using mechanized techniques). All recordable indications found were evaluated and determined to be acceptable. All VT-1 and VT-3 visual examination results were acceptable.

NES documented their examinations in "1977 Manual Preservice Ultrasonic Examination of WNP-2 Reactor Pressure Vessel Final Report." This report was certified by Factory Mutual Engineering, the Owner's ANI(I) at that time.

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10. Abstract of Examinations

11. Abstract of Conditions Noted See Below

12. Abstract of Corrective Measures Recommended and Taken

BOLTING, PIPING, PUMPS, VALVES, HEAT EXCHANGERS AND COMPONENT SUPPORTS

All visual examinations of bolting, pump and valve internals were performed by Supply System personnel. The Supply System has taken credit for the ASME Section III hydrostatic test as the PSI hydrostatic test as allowed by ASME Section XI. The visual examination of Class I pump and valve internals were acceptable in all but three cases. Valve RFW-V-32A had an arc strike which was repaired. Two spare main steam relief valves were found with minor nonconforming conditions which were corrected. The visual examination of component supports resulted in numerous conditions which were unacceptable. All unacceptable conditions were corrected and the affected component supports were reexamined and found to be acceptable. Magnetic Particle, PT and UT examinations were performed by LMT and by Supply System personnel. Component Support visual examinations (VT-3/VT-4) were performed under a Supply System visual inspection program.

Indications found as a result of PT examinations were evaluated and found to be caused by minor piping anomalies. The anomalies were repaired and the welds reexamined with acceptable results.

Indications found as a result of MT examination of the Residual Heat Removal Pump, RHR-P-2B, casing ID were determined to be rejectable linear indications. The linear indications were removed and the welds reexamined with acceptable results.

Indications found as a result of ultrasonic examinations were evaluated and found to be caused by geometry. No rejectable indications were found by UT.

FORM NIS-1

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12. Abstract of Corrective Measures Recommended and Taken

WELDS AND COMPONENTS NOT MEETING ASME SECTION XI PRESERVICE EXAMINATION REQUIREMENTS

The following welds were partially inaccessible to the required ASME Section XI examinations. Details of specific areas which were not examined are included in the WNP-2 PSI Program Plan, Volume 4, Summary Report and its Supplement.

Category B-A:	AE	DA	DE
	AD	DB	DF
	BJ	DC	DG
	BK	DD	DR

Category B-J:	18 RFW(1)A-4	4 LPCS(1)-1
	12 RHR(1)-11LDO	4 HPCS(1)-1
	24 RRC(2)A-8LDI	4 HPCS(1)-2
	24 RRC(2)A-8LDO	4 JP(NZ)B-2
	24 RRC(1)B-6LDI	
	4 RRC(51)-5	
	2 RRC(51)-1	
	2 RRC(51)-2	

Category C-F:	20 RHR(1)A-4
	20 RHR(1)B-4
	18 RHR(1)B-42
	18 RHR(1)B-7/6 RHR(7)-2

The following component supports are completely inaccessible to ASME Section XI examinations. Details of specific areas which were not examined are included in the WNP-2 PSI Program Plan, Volume 4, Summary Report and its supplement.

Catetory C-E-1:	RHR-410(W)	RHR-475(W)	
Category C-E-2 and Class 3 Supports:	RCIC-18	SW-75	SW-317
	SW-34	SW-77	SW-431
	SW-60	SW-137	SW-438
	SW-67	SW-142	SW-916N
	SW-69	SW-152	SW-946N
	SW-72	SW-203	SW-951N

INTRODUCTION

This supplement summarizes the results of the Preservice Inspection (PSI) examinations that were not reported in the PSI Summary Report, Volume 4 of the WNP-2 PSI Program Plan. This summary covers examinations accomplished between March 1, 1983 and the issuance of this report. The NIS-2 Data Reports for Repairs/Replacements completed between March 1, 1983 and October 30, 1984 are included in Appendix B of this report. The NIS-2 Data Reports for repairs completed after October 30, 1984 will be included in the Summary Report for the first Inservice Inspection (ISI).

REQUESTS FOR RELIEF

Appendix A contains requests for relief from code requirements for component supports, welds and welded attachments that were not accessible and for components examined using a calibration block not of the same thickness as the component examined.

EXAMINATION RESULTS

Volumetric/Surface examinations performed after March 1, 1983 .

Volumetric and surface examinations of ASME Code Class 1 and 2 piping and components as required by ASME Section XI and NRC augmented requirements were completed. This supplement documents the results of these examinations that were not documented in the Summary Report issued April 27, 1983.

Volumetric examinations resulted in six significant geometric indications. These are summarized in Table 1.

Reactor Feedwater Nozzle Examinations

Ultrasonic examination of the reactor feedwater nozzles inner radii and bore region was performed using a technique qualified on the WNP-2 reactor feedwater nozzle mock-up. No unacceptable indications were found. The surface examinations were reported in the Summary Report issued April 27, 1983.

Emergency Core Cooling System

An augmented examination of 10% of the Class 2 emergency core cooling system butt welds was completed. RHR Loop C and LPCS were examined by surface methods (PT) and HPCS was examined by volumetric methods (UT). All results were acceptable.

High Energy Lines

An augmented examination of welds in high energy lines penetrating containment was completed. All results were acceptable.

Re-examination after IHSI

Induction Heating Stress Improvement (IHSI) was performed on 113 RRC/RHR welds to prevent IGSCC. To verify that the ISI baseline had not been altered by the process, a 10% sample of the welds treated were reexamined by ultrasonic methods. A comparison with the original baseline showed no change. A 100% PT examination was conducted in those areas where thermocouples were attached to the pipe. A PT examination was also done on the first weld of each size to verify that the baseline had not changed. All results were acceptable.

Visual Examinations

Visual examination of the RPV internals, Class 1 valve intervals, RRC pumps and Class 1 bolting were performed . As explained in the PSI Program Plan, Section 9.0, the Supply System has taken credit for the hydrostatic tests performed under ASME, Section III construction requirements.

Visual examinations of the RPV internal surfaces, core support structures and internal attachments yielded acceptable results. The internal surfaces of class 1 valve bodies and pump casings were all acceptable with the following three exceptions. Valve RFW-V-32A contained an arc strike which was removed, reexamined and found to be acceptable. Two spare main steam safety-relief valves contained minor anomilies, ie.. broken set screw and a gouge. The gouge was accepted as is and the set screw replaced.

Component Support Examinations

Examination by VT-3 and VT-4 methods of Class 1, 2 and 3 component supports was completed. Included in this program was the first inservice visual examinations of safety-related snubbers as required by Technical Specification 3/4.7.4. Discrepancies found during the examinations were resolved. At the end of the examination program, all component supports and snubbers examined were acceptable. All examinations specified in the PSI Component Support Program Plan have been completed except for those identified in Request for Relief 2-0004 and those listed under WNP-2 PSI Plan Commitments.

EVALUATION OF RESULTS

All evaluations for specific examinations done by LMT or the Supply System are attached to the appropriate data sheets and are contained in file number 1101, physically located in the WNP-2 Plant Operations vault.

All indications have been evaluated. Those which were unacceptable per ASME, Section XI code criteria have been repaired and reexamined as necessary. All reexaminations are acceptable.

MECHANIZED FIT AND FUNCTION

A fit and function of each piece of ultrasonic examination mechanized equipment is performed as part of the preservice inspection. This fit and function ensures that the as-built mechanical examination system is capable of performing actual examinations inservice.

The following mechanized equipment fit and function activities were completed after March 1, 1983 and the issuance of this supplement:

- Fit and function of pole device with pole tracks on the upper shell course.
- Fit and function of bottom head device and bottom head tracks.
- Fit and function of inner radius device.

All fit and function tests were acceptable.

WNP-2 PSI PLAN COMMITMENTS

The Supply System has in some cases commited to examinations which are over and above what is required by the reference code. Listed below are areas where these commitments were not met. Relief is not requested since these are not mandatory Section XI requirements.

ISI ISO	Weld or Component Identification	WNP-2 PSI Exam Requirement	Remarks
MS-102-1	26MS(1)B-5	PT	This weld is covered by a massive pipe whip restraint. A code required UT examination was performed using specially designed transducers.

ISI ISO	Weld or Component Identification	WNP-2 PSI Exam Requirement	Remarks
RHR-203	10RHR(4)A-16	PT	This weld is located behind a shielding wall and is inaccessible. For Class 2 components only those items which will be examined inservice require a preservice examination. This weld will not be examined inservice. The Supply System has optionally examined all non exempt Class 2 welds preservice.
RHR-201	RHR-174	VT-3/4 at temperature	These component supports were examined Visually preservice prior to plant start-up with acceptable results. Many areas which were accessible during construction are now inaccessible. e.g. shield walls closed in. A limited examination was performed after three thermal cycles.
	RHR-605		
	RHR-606	VT-3/4 after three thermal cycles.	
	RHR-970N		
RHR-205	RHR-76		
RHR-207	RHR-185		
	RHR-539		
	RHR-540		
	RHR-921N		
	RHR-968N		

ISI ISO	Weld or Component Identification		WNP-2 PSI Exam Requirement	Remarks
				If the component support did not receive a full examination, the piping was looked at to ensure no evidence of binding, unexpected movement, etc. exists.
RHR-201	RHR-1000N	RHR-351	VT-3/4 at temp-	RHR Class 2 Loop
	RHR-1001N	RHR-352	erature	A was scheduled to
	RHR-1004N	RHR-353		receive VT 3/4 exams
	RHR-1022N	RHR-354		at max operating
	RHR-157	RHR-355		temperature. These exams
	RHR-158	RHR-356		were scheduled to be
	RHR-159	RHR-357		done after a scram while
	RHR-160	RHR-358		Loop A was lined up for
	RHR-161	RHR-359		shutdown cooling. Due to
	RHR-162	RHR-360		scheduling difficulties,
	RHR-163	RHR-361		the examiners were not
	RHR-164	RHR-362		available when the sys-
	RHR-165	RHR-363		tem was put into ser-
	RHR-174	RHR-365		vice. The Plant Op-
	RHR-188	RHR-366		erating Committee ap-
	RHR-234	RHR-367		proved a deviation to
	RHR-235	RHR-368		the Power Ascension
	RHR-237	RHR-598		Test Procedure based on:
	RHR-238	RHR-599		1) Loop B had success-
	RHR-240	RHR-600		fully been inspected
	RHR-243	RHR-601		with no problems and

ISI ISO	Weld or Component Identification		WNP-2 PSI Exam Requirement	Remarks
	RHR-244	RHR-603		both loops are similar,
	RHR-260	RHR-604		2) Loop A was observed
	RHR-261	RHR-605		after a pump start
	RHR-263	RHR-606		while in shutdown cool-
	RHR-264	RHR-964N		ing and everything was
	RHR-266	RHR-970N		normal and 3) there is
	RHR-267			only about a 200°F
	RHR-268			between full hot and
	RHR-269			ambient conditions. A
	RHR-270			final cold exam has been
	RHR-271			performed which ensures
	RHR-280			no problems exist.
RHR-205	RHR-119			
	RHR-176			
	RHR-471			
	RHR-58			
	RHR-60			
	RHR-76			

TABLES

1. Significant Indications

TABLE 1
SIGNIFICANT INDICATIONS

Weld No.	Drawing No.	Exam Method	Exam Report No.	Type of Indication Geometry(1)	Other
4RCIC(13)-24	RCIC-201	VOL	RIU-146	45	
12RHR(1)B-10	RHR-106	VOL	RHU-073	45	
6CRD(12)A-3	CRD-201	VOL	CRU-002	43	
6CRD(12)A-4	CRD-201	VOL	CRU-001	43	
6CRD(12)A-7	CRD-201	VOL	CRU-003	43	
8CRD(12)A-13	CRD-201	VOL	CRU-007	45	

(1) The numbers in this column refer to the transducer beam angle.

APPENDIX

A	- Request for Relief	PSI-2-001 - supplement PSI-2-002 PSI-2-003 PSI-2-004
B	- NIS-2 Reports	

APPENDIX A

Request for Relief No.

PSI-2-001 (Supplement)
PSI-2-002
PSI-2-003
PSI-2-004

REQUEST FOR RELIEF NO. PSI-2-001 (SUPPLEMENT)

Component or System

ASME Class 1, Section XI Category B-J pressure retaining welds in piping. List attached.

Code

All of the subject welds were designed and fabricated to ASME Section III Class 1. The Preservice Inspection is to be performed to the 1974 Edition Summer 1975 Addenda of ASME Section XI and Appendix III of the Winter 1975 Addenda.

Number of Welds

Category	No.
B-J	2

Section XI Requirements

Section XI requires examination of 100% of the pressure retaining welds in Categories B-J be performed completely as a Preservice Inspection before initial plant startup. The following examinations are required:

B-J

Circumferential and longitudinal piping welds	Volumetric
Branch pipe connection welds exceeding 6-inch diameter.	Volumetric
Branch pipe connection welds 6-inch diameter and smaller.	Surface
Socket welds.	Surface

Basis for Requesting Relief

Relief is required from ASME Section XI examination requirements on the basis of partial or total inaccessibility of the weld due to plant design. The specific inaccessibility problem for each weld is explained under remarks on the attached tables.

Alternative Examinations

The welds in this request for relief are partially or totally inaccessible to all examination methods.

Impact on Plant Quality and Safety

There will be no adverse impact on plant quality and safety by doing only a partial code examination of these welds.

1. The Class 1 piping welds have passed radiographic and dye penetrant examinations in accordance with Section III.

REQUEST FOR RELIEF NO. PSI-2-001 (SUPPLEMENT)

2. All of the identified welds will be subject to a system pressure test in accordance with Section XI Class 1 requirements.

3. Leak detection systems identify significant leakage in the areas of the subject piping welds. Appropriate operator action would occur due to leak detection system alarms.

4. Alternate systems can bring the reactor to a safe shutdown.

5. Other similar welds in the vessel or same piping run will receive full code examinations. The integrity of the pressure boundary can thus be verified by sampling.

CATEGORY B-J

ISO. NO.	WELD NUMBER	DATA SHEET NO.	SECTION XI EXAM	DESCRIPTION	SECTION III EXAM	REMARKS
RRC-104	2RRC(51)-1	XXX-XXX	PT	Nozzle to Forging		Inaccessible due to CRD housings. These welds are located at the centerline of the RPV and they are completely surrounded by the control rod drive mechanisms.
RRC-104	2RRC(51)-2	XXX-XXX	PT	Forging to Piping		Inaccessible due to CRD housings. These welds are located at the centerline of the RPV and they are completely surrounded by the control rod drive mechanisms.

REQUEST FOR RELIEF NO. PSI-2-002

Component or System	Component support attachment welds. List attached.
Code	All of the subject welds were designed and fabricated to ASME Section III Class 2. The Preservice Inspection was performed to the 1974 Edition Summer 1975 Addenda of Section XI and Appendix III of the Winter 1975 Addenda.
Number of Welds	Category C-E-1 — No. of Welds 2
Section XI Requirements	Section XI requires 100% of the attachment weld to be examined by a surface method for Class 2.
Basis for Requesting Relief	Relief is required from ASME Section XI examination requirements on the basis of partial or total inaccessibility of the attachment weld due to plant design. The specific inaccessibility problem for each weld is explained under remarks on the attached tables.
Alternate Examinations	The welds in this request for relief are partially or totally inaccessible to all examination methods.
Impact on Plant Quality and Safety	There will be no adverse impact on plant quality and safety by doing only a partial or no code examination of these welds.

CATEGORY C-E-1

ISO. NO.	WELD NUMBER	DATA SHEET NO.	SECTION XI EXAM	DESCRIPTION	SECTION III EXAM	REMARKS
RHR-203	RHR-410(W)	XXX-XXX	SUR	Attachment weld		Not accessible - within shielding wall.
RHR-207	RHR-475(W)	XXX-XXX	SUR	Attachment weld		Not accessible - within shielding wall.

REQUEST FOR RELIEF NO. PSI-2-003

Component or System	Reactor Recirculation System line 4RRC(8). List attached.
Code	All of the subject welds were designed and fabricated to ASME Section III, Class 1. The Preservice Inspection is to be performed to the 1974 Edition Summer 1975 Addenda of ASME Section XI and Appendix III of the Winter 1975 Addenda.
Number of Welds	Category: B-J; No. of Welds: 8
Section XI Requirement	These welds are subject to an ultrasonic examination using a calibration block of the same material as the pipe and the same nominal diameter and wall thickness.
Basis for Requesting Relief	The calibration block used for the examinations was 4 inch schedule 40 where the piping is 4 inch schedule 80. An error in the construction specification lead to the use of the wrong schedule calibration block. A review of the examinations using the schedule 40 calibration block instead of the schedule 80 block concluded that the examinations were more sensitive. The weld thickness was approximately 0.3 inches, while the calibration block is 0.24 inches thick.
Alternate Examination	None.
Impact on Plant Quality and Safety	There will be no impact on plant quality and safety by using the schedule 40 calibration block instead of the schedule 80 calibration block. The use of the schedule 40 block will result in a more sensitive examination (thinner material, therefore, smaller notch for calibration reference).

CATEGORY B-J

ISO. NO.	WELD NUMBER	DATA SHEET NO.	SECTION XI EXAM	DESCRIPTION	SECTION III EXAM
RRC-101	4RRC(8)1A-1	RRU-148	VOL	SWL to Pipe	RT/PT
RRC-101	4RRC(8)1A-2	RRU-152	VOL	Pipe to Flange	RT/PT
RRC-101	4RRC(8)2A-1	RRU-146	VOL	SWL to Pipe	RT/PT
RRC-101	4RRC(8)2A-2	RRU-147	VOL	Pipe to Flange	RT/PT
RRC-102	4RRC(8)1B-1	RRU-151	VOL	SWL to Pipe	RT/PT
RRC-102	4RRC(8)1B-2	RRU-150	VOL	Pipe to Flange	RT/PT
RRC-102	4RRC(8)2B-1	RRU-149	VOL	SWL to Pipe	RT/PT
RRC-102	4RRC(8)2B-2	RRU-153	VOL	Pipe to Flange	RT/PT

REQUEST FOR RELIEF NO. PSI-2-004

Component or System	Component supports. List attached.
Code	The Preservice Inspection was performed to the 1974 Edition Summer 1975 Addenda of ASME Section XI with guidance from 1977 Edition Winter 1978 Addenda.
Number of Welds	Category: C-E-1 — No. of Components: 1 Category: N/A (Class 3) — No. of Components: 17
Section XI Requirements	Section XI requires 100% of the component support structure from the pressure boundary to the supporting structure to be visually examined.
Basis for Requesting Relief	All of these component supports are inside bulkhead penetrations and are covered by foam for fire protection which makes them completely inaccessible to visual examination.
Alternate Examinations	All components supports have been examined during construction and found to be acceptable.
Impact on Plant Quality and Safety	None; all other components supports on these lines have been examined and found acceptable. During inservice inspection the adjacent supports will be examined. If the adjacent supports fail, then these supports could be examined by removing the foam fire barrier. This will only be done if there is reason to suspect the subject supports have failed.

CATEGORY C-E-1 AND CLASS 3

ISO. NO.	SUPPORT NO.	DATA SHEET NO.	SECTION XI EXAM	DESCRIPTION	SECTION III EXAM	REMARKS
RCIC-205	RCIC-18	HV-0423	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-301	SW-60	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-301	SW-67	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-301	SW-69	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-301	SW-317	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-301	SW-72	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-301	SW-75	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-301	SW-77	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-303	SW-152	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-303	SW-431	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-303	SW-142	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-303	SW-203	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-303	SW-438	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-303	SW-137	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-305	SW-34	XX-XXXX	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.

CATEGORY C-E-1 AND CLASS 3

ISO. NO.	SUPPORT NO.	DATA SHEET NO.	SECTION XI EXAM	DESCRIPTION	SECTION III EXAM	REMARKS
SW-307	SW-916N	HV-1626	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-314	SW-946N	HV-1633	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.
SW-315	SW-951N	HV-1639	VT-3	Rigid	VT/SUR	Inaccessible due to foam filled penetrations.

APPENDIX B

NIS-2 Owner's Reports

NIS-2/Number/ Program Number	Description
2-0003	Containment Vessel
2-0004	Pump Seal Water Coolers for RHR-P-2A, RHR-P-2B, RHR-P-2C
2-0005	Containment Vessel
2-0006	RHR-V-14A
2-0007	Containment Vessel
2-0008	Containment Vessel
2-0009	Containment Vessel
2-0010	Containment Vessel
2-0011	Containment Vessel
2-0012	Containment Vessel
2-0013	Core Spray Brackets
2-0014	Containment Vessel
2-0024	RFW-V-65A
2-0027	Containment Vessel
2-0029	SLC-TK-1
2-0030	MS-V-22A, MS-V-22B, MS-V-22C, MS-V-22D, MS-V-28A, MS-V-28B, MS-V-28C, MS-V-28D
2-0031	Containment Vessel
2-0032	OG-DY-30A, OG-DY-30B, OG-DY-30C, OG-DY-30D
2-0034	Containment Vessel
2-0034	Corrected
2-0035	PI(1)-ST(1R-83)-1 & 3 and PI(1)-ST(1R-84)-1 & 3
2-0036	PI(1)-4S-X74a
2-0037	Corrected
2-0038	RCC-V-27B
2-0043	PI(1)-45-X75a
2-0044	PI(1)-45-X75b
2-0045	Containment Vessel
2-0046	Containment Vessel

NIS-2/Number/ Program Number	Description
2-0047	CRD Scram Instrumentation
2-0053	PI(1)-4S-X40e
2-0055	SLC-V-6, SLC-V-7
2-0057	RFW-V-10A, RFW-V-10B, RFW-V-32A, RFW-V-32B
2-0059	Containment Vessel
2-0061	RCIC-V-19
2-0062	RCIC-V-66
2-0063	PI(1)-ST-(H22-P024)-A1, A2, A5, A6, A8, and PI(1)-ST-X73a
2-0064	MWR-EV-117B
2-0065	PI(1)-ST-X42e and PI(1)-ST-X72a
2-0066	PI(1)-ST(1R-61)-4 and PI(1)-ST(1R-61)-6
2-0067	RRC-V-30
2-0068	Containment Vessel
2-0069	PI(1)-4S-X71e
2-0070	Containment Vessel
2-0071	Containment Vessel
2-0072	Containment Vessel
2-0073	Containment Vessel
2-0074	Containment Vessel
2-0075	Containment Vessel
2-0076	RHR-P-2A, RHR-P-2B, RHR-P-2C
2-0077	Containment X-16
2-0078	Containment Vessel
2-0079	PI(1)-4S-X79b
2-0080	D-220-3500-39.0-SGT-FT-1A1 D-220-3500-39.0-SGT-FT-1B2
2-0081	PI(1)-4S-X109 PI(1)-4S-X112
2-0082	B35-G001A
2-0083	Containment Vessel
2-0084	Containment Vessel
2-0085	Containment Vessel
2-0086	Containment Vessel

NIS-2/Number/ Program Number	Description
2-0087	B35-G001A, B35-G001B
2-0088	B35-G001A, B35-G001B
2-0089	PI(1)-4S-X39e
2-0090	PI-V-X42a
2-0091	RHR-V-21, RHR-V-24A, RHR-V-24B, RHR-V-48A, RHR-V-48B
2-0092	CSP-V-1, 2, 3, 4, 5, 6, 9 CEP-V-1A, 2A, 3A, 4A
2-0093	RHR-V-50B
2-0094	PI(1)-4S-X37e and PI(1)-4S-X37f
2-0095	Containment Vessel
2-0096	PI(1)-4S-X69a
2-0097	PI(1)-4S-X73a
2-0098	PI(1)-ST-(H22-P024)-A8
2-0100	RRC-V-13B
2-0101	B35-G001A, B35-G001B
2-0102	PI(1)-ST-(H22-P002)-A12 and PI(1)-ST-(H22-P002)-A13
2-0103	Containment Vessel
2-0104	PI(1)-4S-X85e
2-0105	Containment Vessel
2-0106	RRC-SA-1
2-0107	RRC-SB-1
2-0108	PI(1)-4S-X-72f
2-0109	PI(1)-4S-X-73e
2-0110	PI(1)-4S-X-73e
2-0111	Containment Vessel
2-0112	PI(1)-4S-X-82d and PI(1)-4S-X-82f
2-0113	PI(1)-4S-X-72f
2-0114	PSR-V-145, PSR-V-146, PSR-V-147
2-0115	PSR-V-148, PSR-V-149, PSR-V-150
2-0116	RRC-SB-9
2-0117	PI(1)-4S-X44Ab
2-0118	Containment Vessel

NIS-2/Number Program Number	Description
2-0119	PI(1)-ST-(IR-67)-9
2-0120	Containment Vessel
2-0121	Containment Vessel
2-0122	Containment Vessel
2-0123	Containment Vessel
2-0124	Containment Vessel
2-0125	Containment Vessel
2-0126	RHR(3)-2A
2-0127	RFW(1)-4A
2-0128	HPCS(1)-4CL1, HPCS(1)-4CL2
2-0129	PI(1)-ST-IR-63-1A, PI(1)-ST-IR-66-1 and 13
2-0130	B35-G001A
2-0132	CRD(60)-3
2-0134	HY(1)-6S-B-P1
2-0135	HY(1)-6S-B-P1
2-0136	PI(1)-ST-X84b
2-0137	Containment Vessel
2-0138	CRD-Scram/Instrumentation
2-0139	CAC
2-0140	MSRV-1A-4
2-0141	RWCU(1)-3A, RWCU(1)-3B, RWCU-HX-1A, RWCU-HX-1B, RWCU-HX-2A
2-0142	RWCU-1C-5
2-0143	PI(1)-1-X54Bf
2-0144	PI(1)-ST(SW-SR-42)-A
2-0145	PI(1)-45-X44Ah
2-0146	8" RCC(3)-1
2-0147	PI(1)-1-X54Aa
2-0148	PI(1)-4S-X85d
2-0149	PI(1)-4S-X44Ag
2-0150	RHR-907N
2-0151	MS-303
2-0152	RFW-170

NIS-2/Number/ Program Number	Description
2-0153	RHR-132
2-0154	MSRV-4B-8
2-0155	RCIC(19)-1-P1
2-0156	HY valves
2-0157	Retorquing of piping supports
2-0158	RRC-1552-113A
2-0159	PI(1)-4S-X73e
2-0160	PI(1)-4S-X82f
2-0161	PI(1)-4S-X79b
2-0162	SW-RV-25
2-0163	SW-RV-26
2-0164	LPCS-64
2-0165	PI(1)-ST-MSLC-PT-10A, 10C, and 10D
2-0166	MSRV-2A-2
2-0167	SW-1525-16
2-0168	RHR-V-82
2-0169	RHR-1051S
2-0170	HY(1)-6S
2-0171	CIA(3)-2
2-0172	Hydrogen Recombiner Seal Loop
2-0173	RHR-1050S
2-0175	CSP(1)-1A
2-0176	CSP(1)-1A
2-0177	CSP(1)-1A
2-0178	
2-0179	CAC(21)-1A, CAC(21)-1B
2-0180	CCH-CR-1A, CCH-CR-1B
2-0181	LPCS-V-1
2-0182	RCC(36)-1
2-0184	PI(1)-4S-X38e and PI(1)-4S-X38f
2-0185	PI(1)-4S-X71c and PI(1)-4S-X71d
2-0186	PI(1)-4S-X71e and PI(1)-4S-X71f

NIS-2/Number/ Program Number	Description
2-0187	PI(1)-ST-X86B and PI(1)-ST-X87B
2-0188	PI(1)-4S-X85d, X85e, X72c and X72d
2-0189	PI(1)-4S-X29d, X42f, X61c, X62b, X69e, X72a
2-0192	RCC(36)-1
2-0195	CIA-V-41A, CIA-V-41B
2-0196	CIA(5)-1A, CIA(5)-1B
2-0197	DO-V-43
2-0198	DMA-CC-51
2-0199	D220-031.0-1R-64
2-0200	RWCU-HX-2A
2-0201	SLC(1)-1S
2-0202	RHR-V-85B, RHR-V-85C
2-0203	RHR-HX-2A
2-0204	Seal Cooler Piping RHR-P-2B
2-0205	RHR(1)-2A
2-0206	PI(1)-4S-X86a and PI(1)-ST-X86a
2-0208	HY(1)-6S-A-P1

- The following NIS-2 data reports were filed with the PSI Summary Report: 2-0001, 2-0002, 2-0015, 2-0016, 2-0017, 2-0018, 2-0019, 2-0020, 2-0021, 2-0022, 2-0023, 2-0025, 2-0026, 2-0034, 2-0037, 2-0039, 2-0040, 2-0041, 2-0042, 2-0048, 2-0049, 2-0054 and 2-0056.

- The following NIS-2 data reports have been voided: 2-0051, 2-0052, 2-0099, 2-0131, 2-0133 and 2-0174.

- For the following NIS-2 data reports the work has not been completed: 2-0033, 2-0178, 2-0183, 2-0191, 2-0193, 2-0194 and 2-0207.

- The following NIS-2 data reports are not required: 2-0028, 2-0050, 2-0058 and 2-0190. Those were non-welded repairs.

Plan No. 2-0003

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by PDM (Name) 2808-213B Repair Organization P.O No., Job No., etc.
Neville Island, Pennsylvania (Address)

4. Identification of System Containment Vessel, Penetration X-76

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 74, S75 Addenda, Code Cases N 308 & N 236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel Penet. X-76	PDM	12764	790	N/A	N/A	1976	Replacement	Yes, Class MC

7. Description of Work Containment Vessel penetration process lines at penetration X-76 were bent. These bent lines were replaced. The replacement work was performed as follows:

1. Removed damaged penetration process lines.
2. Installed new penetration process lines by welding.
3. Performed NDE examinations. NDE examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340° F

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

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0003

CERTIFICATE OF COMPLIANCE

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

Signed K O Conn (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date) ,19 84

K O Conn 10/30/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James L. Grant (Inspector) Commissions 6265W (State or ~~Province~~, National Board)

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

Plan No. 2-0003

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. (Name)
(Address)

3. Work Performed by PDM (Name) 2808-213B Repair Organization P.O No., Job No., etc.
Neville Island, Pennsylvania (Address)

4. Identification of System Containment Vessel, Penetration X-77A

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1974, S75 Addenda, Code Cases N 308 & N 236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel Penet. X-77A	PDM	12764	790	N/A	N/A	1976	Replacement	Yes, Class MC

7. Description of Work Containment Vessel penetration X-77A was replaced with redesigned penetration assembly. The replacement work was performed as follows:

1. Removed original penetration assembly.
2. Installed code stamped modified penetration assembly by welding.
3. Performed NDE examinations on the final weld. NDE examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test except for leaking pipe to sleeve weld for penetration process line X-77Aa. The defective weld was repaired in accordance with ASME Section XI Plan No. 2-0178. Refer to this plan for further details.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks See attached N-2 Code Data Report for replacement penetration assembly S/N 16713/X-77A.
(Applicable Manufacturer's Data Reports to be attached)

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0003

CERTIFICATE OF COMPLIANCE

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

Signed [signature] Plant Tech. Manager 10/29 ,19 84
(Owner or Owner's Designee) Title (Date)

[signature] 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 [signature] (Inspector) Commissions 6265W (State or ~~Province~~, National Board)

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

Plan No. 2-0003

APPENDIX V

FORM N-2

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

As required by the Provisions of the ASME Code Rules

1 (a) Manufactured by PITTSBURGH-DES MOINES CORPORATION - PROVO, UT
(Name and address of Manufacturer of part)

(b) Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM-WNP #2 RICHLAND, WA
(Name and address of Manufacturer of completed nuclear vessel)

2. Identification-Manufacturer's Serial No. of Part 16713/X-77A National Board No. N/A

(a) Constructed According to Drawing No. 104-REV. B DCN 220-REV. B Drawing Prepared by PITTSBURGH-DES MOINES CORP.

(b) Description of Part Inspected INSTRUMENTATION PENETRATION ASSEMBLY (SEE NOTE BACK SHEET)

(c) Applicable ASME Code: Section III, Edition SUMMER 1971, Addenda date OF 72, Case No. NA Class MC

3. Remarks: MAIN STEAM FLOW INSTRUMENTATION PENETRATION ASSEMBLY TO BE
(Brief description of service for which vessel part was designed)
LOCATED AT ELEVATION 506' 0", AND CENTER LINE AT AZIMUTH 319° 00' 00" ON THE CONTAINMENT PRESSURE VESSEL. DESIGN PRESSURE OF 1250 PSI AND DESIGN TEMPERATURE OF 575°. LOWEST METAL SERVICE TEMPERATURE OF 30°.

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

Date 10/23, 19 81 Signed (1) PDM Corporation (Manufacturer) By [signature]

Certificate of Authorization Expires 10-19-82 Certificate of Authorization No. N-1494-6.

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at (1) PITTSBURGH-DES MOINES CORPORATION PITTSBURGH, PA

Stress analysis report on file at (1) (2) PITTSBURGH-DES MOINES CORPORATION -PITTSBURGH,PA

Design specifications certified by John F. O'DONNELL Prof. Eng. State WA Reg. No. 15895

Stress analysis report certified by (2) Prof. Eng. State (2) Reg. No. (2)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of UTAH * and employed by WALTHAM, MA of have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on OCTOBER 23, 19 81, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date 10/23, 19 81

*ARKWRIGHT BOSTON MFGRS. MUTUAL INS. CO./ MUTUAL BOILER AND MACHINERY DIVISION

Paul M. Howe
Inspector's Signature

Commissions UTAH 7
National Board, State, Province and No.

(1) Formerly Pittsburgh-Des Moines Steel Company.

(2) The stress analysis report for this appurtenance is included in PDM's containment vessel modification reconciliation report per NA-3355 & is furnished per NA-3354 as an appurtenance to a component.

RETENTION COPIES (3)

TRANS. # 1622 ~~1341~~

FORM N-2 SECTION III – APPENDIX V

N/A ITEMS 4-8

N/A ITEMS 9 & 10

N/A ITEMS 11-14

N/A

N/A

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ (Kind & Spec. No.) T.S. _____ (Min. of Range Specified) Nominal Thickness _____ in. Corrosion Allowance _____ in. Diam. _____ ft. _____ in. Length _____ ft. _____ in.

5. Seams: Long _____ H.T.[1] _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.[1] _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a)								
(b)								

If removable, bolts used (Material, Spec. No., T.S., Size, Number) _____ Other fastening _____ (Describe or attach sketch)

7. Jacket Closure: _____ (Describe as edge welded, bar, etc. If bar give dimensions, if bolted, describe or sketch).

8. Design pressure[2] _____ psi at _____ °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.) Diam. _____ (Subject to pressure) Thickness _____ in. Attachment _____ (Welded, Bolted)

Floating. Material _____ Diam. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches or gage No. _____ 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. Diam. _____ 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 Pressure (Convex or Concave)
(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

14. Design pressure[2] _____ psi at _____ °F at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlet: Number N/A Size N/A Location N/A

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
FLOW	6	1"	INSTR.	SA-312 SCH.80		N/A	WELDED
NOZZELS			TYPE-304				

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.

This Form is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

3. This penetration assembly was fabricated to fit on to existing 10" spare penetration X-77A and was manufactured from the following list of material:

(A) 1" Sch. 80 pipe per SA-312 Type 304 Seamless
(B) 10" Sch. 40 pipe per SA-333 Gr. 6
(C) 2" bar stock per SA-240 Type 304
(D) 12 3/4" Ø x 3/8" plate per SA-516 Gr. 70
(E) 1½" Ø x 7/8" plate per SA-240 Type 304
(F) 9 7/16" Ø x 1/4" plate SA-240 Type 304

Plan No. 2-0004

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Washington Public Power Supply System (Name) Repair Organization P.O No., Job No., etc. Washington Public Power Supply System
3000 George Washington Way, Richland, WA (Address)

4. Identification of System Residual Heat Removal (RHR)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR Cooler	Ametek	79283	598	N/A	N/A	1980	Replaced	Yes, Tube-Class 2, ~~Shell-Class~~ 3
RHR Cooler	"	79284	599	"	"	"	"	" " "
RHR Cooler	"	79285	600	"	"	"	"	" " "

7. Description of Work: The RHR pump seal water coolers received from RHR pump vendor were not designed to operate under expected pressure of the service water system. New seal water coolers (with higher pressure) manufactured by Ametek were installed on RHR-P-2A, 2B and 2C pumps as follows:

1. Removed the old coolers.
2. Installed new coolers on pumps RHR-P-2A, 2B and 2C.
3. Made socket welds to connect the tube side of each one of the coolers to each one of the pumps.
4. PT examined the following socket welds made under ASME Section XI.
   (a) Cooler SN 79283 to RHR-P-2A pump - 10 socket welds.
   (b) Cooler SN 79284 to RHR-P-2B pump - 9 socket welds.
   (c) Cooler SN 79285 to RHR-P-2C pump - 10 socket welds.
   PT examination results acceptable.
5. Performed hydrostatic test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
* Test Pressure 625 psi Test Temp 60 °F Component Design Pressure 500 psig Temp. 480°F

9. Remarks Data reports for new coolers SN's 79283, 79284, and 79285 are attached.
(Applicable Manufacturer's Data Reports to be attached)

* Test pressure of 625 psig is 1.25 x system design pressure.

Plan No. 2-0004

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title Engineer (Date) 1/4, 19 84

12/30/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 1-6, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-6-84 James Brent (Inspector) Commissions W6265 (State ~~or Province~~, National Board)

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

Plan No. 2-0004

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

UNIT "A"

1. Manufactured by AMETEK/Schutte & Koerting Division, Perkasie, Pa.
(Name and address of N Certificate Holder)

2. Manufactured for WSH/BOECON/GERI
(Name and address of Purchaser)

3. Type Horiz. (Horiz. or Vert.) Kind Ht. Exch (Tank, Jacketed, Heat Exr.) Vessel No. 79283 (Manufr's Serial No.) (--) (State & State No.) Nat'l Bd. No. 598 Yr. Built 1980

3a. Applicable ASME Code: Section III, Edition 1977, Addenda date Winter 1977, Case No. --
Class Tubeside 2
Shell Side 3

Items 4–8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA106-B (Kind & Spec. No.) T.S. 60,000 (Min. of range specified) Nominal Thickness .375 in. Corrosion Allowance .063 in. Dia. 1 ft. 0.75 in. Length 1 ft. 3.5 in.

5. Seams: Long SMLS H.T.[1] N/A R.T. N/A Efficiency D.S. 80 %
Welded,
Girth Smol Butt H.T.[1] N/A R.T. N/A (SA515-Gr70) No. of Courses 1

6. Heads (a) Material N/A T.S. -- (b) Material SA234-WPB T.S. --

	Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a)	N/A	--	--	--	--	--	--	--	--
(b)	End (Rear)	--	--	--	2:1	--	--	--	Concave

If removable, bolts used N/A (Material, Spec. No., T.S., Size, Number) Other fastening -- (Describe or attach sketch)

7. Jacket Closure N/A
(Describe as ogee & weld, bar, etc. If bar give dimensions, describe or sketch)

8. Design Pressure[1] 300 psi at 200 °F at temp. of -- °F. Drop Weight -- Charpy Impact -- ft-lb Pneumatic Hydrostatic or Combination Test Pressure 450 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material N/A (Kind & Spec. No.) Dia. -- (Subject to press.) in. Thickness -- in. Attachment -- (Welded, Bolted)
Floating. Material -- (Kind & Spec. No.) Dia. -- in. Thickness -- in. Attachment --

10. Tubes: Material SA213-TP316 (Kind & Spec. No.) O.D. .625 in. Thickness .049 inches or gage -- Number 1 Type Coil (Straight or U)

Items 11 to 14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material N/A (Kind & Spec. No.) T.S. -- (Min. of range specified) Nominal Thickness -- in. Corrosion Allowance -- in. Dia. -- ft. -- in. Length -- ft. -- in.

12. Seams: Long N/A (Welded, Dbl., Sing(e)) H.T.[1] -- (Yes or No) R.T. -- Efficiency -- %
Girth N/A H.T.[1] -- R.T. -- No. of Courses --

13. Heads: (a) Material N/A T.S. -- (b) Material SA240-TP316 T.S. 75,000 (c) Material N/A T.S. --

	Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a)	Top, bottom, ends	N/A	--	--	--	--	--	--	--
(b)	Channel	.875	--	--	--	--	--	15.75	Flat
(c)	Floating	N/A	--	--	--	--	--	--	--

If removable, bolts used (a) C.S. SA193-B7-0.75" Dia. 125,000-12 (b) -- (c) -- Other fastening -- (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

14. Design pressure[1] 600 psi at 400 °F at temp. of -- °F. Drop weight -- Charpy Impact -- ft-lb Pneumatic Hydrostatic or Combination Test Pressure 935 psi

[1] If Postweld Heat Treated. [2] Give other internal or external pressures with coincident temperatures when applicable.
[3] Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 thru 14 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 15. "Remarks."

(10/77) This form (E00038) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM N-1 (back)

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number -- Size -- Location Elsewhere in System

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Tube In/Out	1 Ea	0.625"	Tube	SA-213T316	0.049	Inherent	B.W. End
Shell In/Cut	1 Ea	0.75"	Socklt.	SA182-F304	Sch 40	"	Welded
Shell Drain	1	0.375"	NPT	SA240-TP316	0.875	--	Integral

17. Inspection Openings: Manholes, No. N/A Size -- Location --
Handholes, No. -- Size -- Location --
Threaded, No. -- Size -- Location --

18. Supports: Skirt No (Yes or No) Lugs -- (Number) Legs -- (Number) Other Cradle (Describe) Attached Shell/Welded (Where & How)

19. Remarks: Seal Injection Cooler (TP 1-HC-1, Sz 12-A-480) was constructed per WBG P.O. No. 215-114750 for WPPSS Hanford Jobsite No. 2, and Design Spec. 15H to be used with RHR System Mark #RHR-HX-2A.

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at AMETEK/Schutte & Koerting Division, Bethayres, Pa.

Stress analysis report on file at AMETEK/Schutte & Koerting Division, Bethayres, Pa.

Design specifications certified by Donald J. Murphy Prof. Eng. State Wash. Reg. No. 12542

Stress analysis report certified by John H. Nawrzemak Prof. Eng. State Mass. Reg. No. 29090

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

Date June 19, 1980 Signed AMETEK/S&K Div. (N Certificate Holder) By T. V. Leighton

Certificate of Authorization Expires 9-30-80 Certificate of Authorization No. 1970

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY AMETEK/Schutte & Koerting Division at Bethayres, Pa.

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 Penna. and employed by *Factory Mutual Systems of Norwood, Mass. have inspected the pressure vessel described in this Manufacturer's Data Report on June 19, 1980, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pressure vessel in accordance with the ASME Code Section III.

*Allendale Mutual Insurance Company

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

Date June 19, 1980

C. Fee Carlson
Inspector's Signature

Commissions NB 3954 PA 1515
National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY 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 pressure vessel and state that parts referred to as data items _____, and included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the N Certificate Holder has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel 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's Signature

Commissions _____
National Board, State, Province and No.

Plan No. 2-0004

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

1. Manufactured by SMITH/Schutte & Koerting Division, Bethayres, Pa.
(Name and Address of N Certificate Holder)

2. Manufactured for WSH/BOECON/GERI
(Name and address of Purchaser)

3. Type Horiz. (Horiz. or Vert.) Kind Ht. Exch (Tank, Jacketed, Heat Ex.) Vessel No. (Mfr's Serial No.) 79284 (State & State No.) -- Nat'l Bd. No. 599 Yr. Built 1980

3a. Applicable ASME Code: Section III, Edition 1977, Addenda date Winter 1977, Case No. --
Class Tubeside 2
Shell Side 3

Items 4–8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA106-B (Kind & Spec. No.) T.S. 60,000 (Min. of range specified) Nominal Thickness .375 in. Corrosion Allowance .063 in. Dia. 1 ft. 0.75 in. Length 1 ft. 3.5 in.

5. Seams: Long SMLS H.T.[1] N/A R.T. N/A Efficiency D.S. 80 %
Welded,
Girth Sngl Butt H.T.[1] N/A R.T. N/A No. of Courses 1
(SA515-Gr70)

6. Heads (a) Material N/A T.S. -- (b) Material SA234-WPB T.S. --

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) N/A	--	--	--	--	--	--	--	--
(b) End (Rear)	--	--	--	2:1	--	--	--	Concave

If removable, bolts used N/A (Material, Spec. No., T.S., Size, Number) Other fastening -- (Describe or attach sketch)

7. Jacket Closure N/A
(Describe as welded, bolted, etc. If bolted give dimensions, describe or sketch)

8. Design Pressure[1] 300 psi at 200 °F at temp. of -- °F. Drop Weight -- Charpy Impact -- ft-lb Pneumatic Hydrostatic or Combination Test Pressure 450 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material N/A (Kind & Spec. No.) Dia. -- (Subject to press.) in. Thickness -- in. Attachment -- (Welded, Bolted)
Floating. Material -- (Kind & Spec. No.) Dia. -- in. Thickness -- in. Attachment --

10. Tubes: Material SA213-TP316 (Kind & Spec. No.) O.D. .625 in. Thickness .049 inches or gage -- Number 1 Type Coil (Straight or U)

Items 11 to 14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material N/A (Kind & Spec. No.) T.S. -- (Min. of range specified) Nominal Thickness -- in. Corrosion Allowance -- in. Dia. -- ft. -- in. Length -- ft. -- in.

12. Seams: Long N/A (Welded, Dbl., Single) H.T.[1] -- (Yes or No) R.T. -- Efficiency -- %
Girth N/A H.T.[1] -- R.T. -- No. of Courses --

13. Heads: (a) Material N/A T.S. -- (b) Material SA240-TP316 T.S. 75,000 (c) Material N/A T.S. --

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Top, bottom, ends	N/A	--	--	--	--	--	--	--
(b) Channel	.875	--	--	--	--	--	15.75	Flat
(c) Floating	N/A	--	--	--	--	--	--	--

If removable, bolts used (a) -- (b) C.S. SA193-B7-0.75" Dia. 125,000-12 (c) -- Other fastening -- (Describe or attach sketch)
(Material, Spec. No., T.S., Size, Number)

14. Design pressure[1] 600 psi at 400 °F at temp. of -- °F. Drop weight -- Charpy Impact -- ft-lb Pneumatic Hydrostatic or Combination Test Pressure 825 psi

[1] If Postweld Heat-Treated. [2] Give highest internal or external pressure with corresponding temperature when applicable.

(10/77) This form (E00036) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM N-1 (back)

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number -- Size -- Location Elsewhere in System

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Tube In/Out	1 Ea	0.625"	Tube	SA-213 T316	0.049	Inherent	B.W. End
Shell In/Out	1 Ea	0.75"	Socklt.	SA182-F304	Sch 40	"	Welded
Shell Drain	1	0.375"	NPT	SA240-TP316	0.875	--	Integral

17. Inspection Openings: Manholes, No. N/A Size -- Location --
Handholes, No. -- Size -- Location --
Threaded, No. -- Size -- Location --

18. Supports: Skirt No (Yes or No) Lugs -- (Number) Legs -- (Number) Other Cradle (Describe) Attached Shell/Welded (Where & How)

19. Remarks: "Seal Injection Cooler" (TP 1-HC-1, Sz 12-A-480) was constructed per WBG P.O. No. 215-114750 for WPPSS Hanford Jobsite No. 2, and Design Spec. 15H to be used with RHR System Mark #RHR-HX-2B

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at AMETEK/Schutte & Koerting Division, Bethavres, Pa.

Stress analysis report on file at AMETEK/Schutte & Koerting Division, Bethavres, Pa.

Design specifications certified by Donald J. Murphy Prof. Eng. State Wash. Reg. No. 12542

Stress analysis report certified by John H. Wawrzemak Prof. Eng. State Mass. Reg. No. 29090

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

Date June 19, 1980 Signed AMETEK/S&K Div. By T. V. Leighton
(N Certificate Holder)

Certificate of Authorization Expires 9-30-80 Certificate of Authorization No. 1870

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY AMETEK/Schutte & Koerting Division at Bethavres, Pa

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 Penna. and employed by *Factory Mutual Systems of Norwood, Mass.

have inspected the pressure vessel described in this Manufacturer's Data Report on June 19, 1980, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pressure vessel in accordance with the ASME Code, Section III.

*Allendale Mutual Insurance Company

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

Date June 19, 1980

Inspector's Signature

Commissions NB 3954 PA 1515
National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY 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 pressure vessel and state that 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 N Certificate Holder has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and or Pneumatic Test of _____ psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel 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 _____ By _____

Inspector's Signature

Commissions _____
National Board, State, Province and No.

Plan No. 2-0004

...FOR NUCLEAR VESSELS 178-40086

As required by the Provisions of the ASME Code Rules, Section III, Div. 1 UNIT "C"

1. Manufactured by AMETEK/Schutte & Koerting Division, Bethayres, Pa.
(Name and address of N Certificate Holder)

2. Manufactured for WSH/BOECON/GERI
(Name and address of Purchaser)

3. Type Horiz. (Horiz. or Vert.) Kind Ht. Exch (Tank, Jacketed, Heat Ex.) Vessel No. (79285) (Mfrs. Serial No.) (--) (State or State No.) Nat'l Bd. No. 600 Yr. Built 1980

3a. Applicable ASME Code: Section III, Edition 1977, Addenda date Winter 1977, Case No. --
Class Tubeside 2
Shell Side 3

Items 4–8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA106-B (Kind & Spec. No.) T.S. 60,000 (Min. of range specified) Nominal Thickness .375 in. Corrosion Allowance .063 in. Dia. 1 ft. 0.75 in. Length 1 ft. 3.5 -- in.

5. Seams: Long SMLS H.T.[1] N/A R.T. N/A Efficiency D.S. 80 %
Welded,
Girth Sngl Butt H.T.[1] N/A R.T. N/A (SA515-Gr70) No. of Courses 1

6. Heads (a) Material N/A T.S. -- (b) Material SA234-WPB T.S. --

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) N/A	--	--	--	--	--	--	--	--
(b) End (Rear)	--	--	--	2:1	--	--	--	Concave

If removable, bolts used N/A (Material, Spec. No., T.S., Size, Number) Other fastening -- (Describe or attach sketch)

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

8. Design Pressure[2] 300 psi at 200 °F at temp. of -- °F. Drop Weight -- Pneumatic Charpy Impact -- ft-lb Hydrostatic or ~~Combination~~ Test Pressure 450 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material N/A (Kind & Spec. No.) Dia. -- (Subject to press.) in. Thickness -- in. Attachment -- (Welded, Bolted)
Floating. Material -- (Kind & Spec. No.) Dia. -- in. Thickness -- in. Attachment --

10. Tubes: Material SA213-TP316 (Kind & Spec. No.) O.D. .625 in. Thickness .049 inches or gage -- Number 1 Type Coil (Straight or U)

Items 11 to 14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material N/A (Kind & Spec. No.) T.S. -- (Min. of range specified) Nominal Thickness -- in. Corrosion Allowance -- in. Dia. -- ft. -- in. Length -- ft. -- in.

12. Seams: Long N/A (Welded, Dbl., Single) H.T.[1] -- (Yes or No) R.T. -- Efficiency -- %
Girth N/A H.T.[1] -- R.T. -- No. of Courses --

13. Heads: (a) Material N/A T.S. -- (b) Material SA240-TP316 T.S. 75,000 (c) Material N/A T.S. --

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Top, bottom, ends	N/A	--	--	--	--	--	--	--
(b) Channel	.875	--	--	--	--	--	15.75	Flat
(c) Floating	N/A	--	--	--	--	--	--	--

If removable, bolts used (a) -- (b) C.S. SA193-B7-0.75" Dia. 125,000-12 (c) -- Other fastening -- (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

14. Design pressure[2] 600 psi at 400 °F at temp. of -- °F. Drop weight -- Pneumatic Charpy Impact -- ft-lb Hydrostatic or Combination Test Pressure 935 psi

[1] If Postweld Heat-Treated. [2] Give other internal or external pressures with coincident temperature when applicable.

* Information shown in form of lists, sketches or drawings may be used provided (1) size is 8½ x 11, (2) information is in accordance with this Data Report, (3) each sheet is numbered and number of sheets is recorded in line 10, Remarks.

(10/77) This form (E00038) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM N-1 (back)

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number -- Size -- Location Elsewhere in System

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Tube In/Out	1 Ea	0.625"	Tube	SA-213T316	0.049	Inherent	B.W. End
Shell In/Out	1 Ea	0.75"	Socklt.	SA182-F304	Sch 40	"	Welded
Shell Drain	1	0.375"	NPT	SA240-TP316	0.875	--	Integral

17. Inspection Manholes, No. N/A, Size -- Location --
Openings: Handholes, No. -- Size -- Location --
Threaded, No. -- Size -- Location --

18. Supports: Skirt No (Yes or No) Lugs -- (Number) Legs -- (Number) Other Cradle (Describe) Attached Shell/Welded (Where & How)

19. Remarks: Seal Injection Cooler (TP 1-HC-1, Sz 12-A-480) was constructed per WEG P.O. No. 215-11475Q for WPPSS Hanford Jobsite No. 2, and Design Spec. 15H to be used with RHR System Mark #RHR-HX-2C.

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at AMETEK/Schutte & Koerting Division, Bethayres, Pa.

Stress analysis report on file at AMETEK/Schutte & Koerting Division, Bethayres, Pa.

Design specifications certified by Donald J. Murphy Prof. Eng. State Wash. Reg. No. 12542

Stress analysis report certified by John H. Wawrzemak Prof. Eng. State Mass. Reg. No. 29090

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

Date June 19, 1980 Signed AMETEK/S&K Div. (N Certificate Holder) By T. V. Leighton

Certificate of Authorization Expires 9-30-80 Certificate of Authorization No. 1370

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY AMETEK/Schutte & Koerting Division at Bethayres, Pa.

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 Penna. and employed by *Factory Mutual Systems of Norwood, Mass.

have inspected the pressure vessel described in this Manufacturer's Data Report on June 19, 1980, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pressure vessel in accordance with the ASME Code, Section III.

*Allendale Mutual Insurance Company

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

Date June 19, 1980

Inspector's Signature

Commissions NB 3954 PA 1515
National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY 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 pressure vessel and state that parts (referred to as data items _____) and included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the N Certificate Holder has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described on 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's Signature

Commissions _____
National Board, State, Province and No.

Plan No. 2-0005

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)
3. Work Performed by PDM (Name) 2808-213B Repair Organization P.O No., Job No., etc.
Neville Island, Pennsylvania (Address)
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 74, S75 Addenda, Code Cases N 308 & N 326
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work Containment Vessel high sulphur shell plate at elevation 464'-0", Azimuth 177° was repaired. The repair work was performed as follows:

1. Prepped the area for repair welding.
2. Performed NDE examination of the area. NDE examination results acceptable.
3. Repaired the area by welding.
4. Performed NDE examinations on the weld repaired area. NDE examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT (Note 1)
Test Pressure 35.2 psi g Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

Note 1 - No inspections performed. Acceptance based on successful completion of primary containment vessel 24 hour pressure decay test.

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0005

CERTIFICATE OF COMPLIANCE

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

Signed K D Cross (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date), 19 8X

V Sweet 10/12/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H. Brent (Inspector) Commissions 6265 W (State or ~~Province~~, National Board)

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

Plan No. 2-0006

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

1. Owner Washington Public Power Supply System (Name) Date 4/8/83
3000 George Washington Way, Richland WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County Wa (Address)
3. Work Performed by Bechtel Power Corp (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richand, Wa (Address)
4. Identification of System Residual Heat Removal (RHR)
5. (a) Applicable Construction Code ASME III 71 19 Edition, S73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-V-14A	Velan	77G-623	N/A	N/A	N/A	1977	Repaired	Yes, Class 3

7. Description of Work Area on the valve body was blended down to less than the required wall. This area was repaired as follows:

1) PT examined the excavated area. PT examination results rejectable.
2) Removed PT rejectable indications
3) UT examined the excavated area for wall thickness. Wall thickness below the required wall.
4) Weld built up the excavated area and blended the welded area smoothly into the adjacent base metal.
5) Weld built up the area second time
6) UT examined the weld built up area for wall thickness check. Wall thickness above the required wall.
7) PT examined the welded area. PT examination results acceptable
8) Performed hydrostatic test. No evidence of leakage.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ]
Test Pressure 238 psi Test Temp 71 °F Component Design Pressure 300 Temp. 150

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

* Test pressure of 238 psig is 1.1 x System Operations pressure

CERTIFICATE OF COMPLIANCE

Plan No. 2-0006

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

Signed ~~4/6/83~~ B A Holmberg Mgr Eng WNP-2 4/11 ,19 83
(Owner or Owner's Designee) Title (Date)

K Ewyln 4/6/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermens Mutual Casualty Co of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 4-12 ,19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-12-83 James L. Brent (Inspector) Commissions 6265W (State or Province, National Board)

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

Plan No. 2-0007

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. 99352 (Name) (Address)

3. Work Performed by PDM (Name) 2808-213B Repair Organization P.O No., Job No., etc.
Neville Island, Pennsylvania (Address)

4. Identification of System Containment Vessel, Penetration X-35

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 77, S78 Addenda, Code Cases N 308 & N 236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel Penet. X-35	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work Containment vessel penetration X-35 had several gouges below the required wall thickness. These gouges were repaired by welding. The repair work was performed as follows:

1. Prepared gouges for repair welding.
2. Performed NDE examination on the gouges. NDE examination results acceptable.
3. Repaired the area by welding.
4. Performed NDE examination on the weld repaired area. NDE examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT (Note 1)
Test Pressure 35.2 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

Note 1 - No inspections performed. Acceptance based on successful completion of primary containment vessel 24 hour pressure decay test.

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0007

CERTIFICATE OF COMPLIANCE

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

Signed K C Cowan (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date), 19 84

K Cowan 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Grant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0008

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)

3. Work Performed by PDM (Name) 2808-213B Repair Organization P.O No., Job No., etc.
Neville Island, Pennsylvania (Address)

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 74, S75 Addenda, Code Cases N 308 & N 236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work Gouges in containment vessel shell plate near penetrations X-35 and X-118 were repaired by welding. The repair work was performed as follows:

1. Prepped gouges for repair welding.
2. Performed NDE examination on the gouges. NDE examination results acceptable.
3. Repaired the area by welding.
4. Performed NDE examination on the weld repaired areas. NDE examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT (Note 1)
Test Pressure 35.2 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

Note 1 - No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0008

CERTIFICATE OF COMPLIANCE

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

Signed K O'Connor Plant Tech. Manager 10/29 ,19 84
(Owner or Owner's Designee) Title (Date)

K Conn 10/27/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Brent (Inspector) Commissions 6265 W (State ~~or Province~~, National Board)

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

Plan No. 2-0009

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)

3. Work Performed by PDM (Name) 2808-213B Repair Organization P.O No., Job No., etc.
Neville Island, Pennsylvania (Address)

4. Identification of System Containment Vessel, Penetration X-43A

5.(a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 77, S78 Addenda, Code Cases N 308 & N 236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel Penet. X-43A	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work The undersized fillet weld attaching containment vessel penetration X-43A to the inside wall of the containment vessel was repaired. The repair work was performed as follows:

1. Repaired the area by welding.
2. Performed NDE examination on the repaired area. NDE examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT (Note 1)
Test Pressure 35.2 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

Note 1 - No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0009

CERTIFICATE OF COMPLIANCE

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

Signed K.D. Conner Plant Tech. Manager 10/29 ,19 84
(Owner or Owner's Designee) Title (Date)

K.D. Conner 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84

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

Date 10/30/84 James H Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 20010

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)

3. Work Performed by PDM (Name) 2808-213B Repair Organization P.O No., Job No., etc.
Neville Island, Pennsylvania (Address)

4. Identification of System Containment Vessel, Penetration X-43B

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 77, S78 Addenda, Code Cases N 308 & N 236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel Penet. X-43B	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work The undersized fillet weld attaching containment vessel penetration X-43B to the inside wall of the containment vessel was repaired. The repair work was performed as follows:

1. Repaired the area by welding.
2. Performed NDE examination of the weld repaired area. NDE examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT (Note 1)
Test Pressure 35.2 psi g Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

Note 1 - No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0010

CERTIFICATE OF COMPLIANCE

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

Signed K D Cove (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date) ,19 84

K Cove 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84

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

Date 10/30/84 James H. Brent (Inspector) Commissions 6265W (State or ~~Province~~, National Board)

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

Plan No. 2-0011

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)
3. Work Performed by PDM (Name) 2808-213B Repair Organization P.O No., Job No., etc.
Neville Island, Pennsylvania (Address)
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 74, S75 Addenda, Code Cases N 308 & N 236
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work Containment vessel shell plate at elevation 446', Azimuth 191° was repaired. The repair work was performed as follows:

1. Prepped the area for repair welding.
2. Performed NDE examination of the area. NDE examination results acceptable.
3. Repaired the area by welding.
4. Performed NDE examination on the weld repaired area. NDE examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT (Note 1)
Test Pressure 35.2 psi Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

Note 1 - No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0011

CERTIFICATE OF COMPLIANCE

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

Signed K O'Connor (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date), 19 84

K Swab 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James B Brent (Inspector) Commissions: 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0012

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

1. Owner Washington Public Power Supply System (Name) Date 10/3/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)

3. Work Performed by PDM (Name) 2808-213B Repair Organization P.O No., Job No., etc.
Neville Island, Pennsylvania (Address)

4. Identification of System Containment Vessel, Penetration X-47

5.(a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 77, S78 Addenda, Code Cases N 308 & N 236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel Penet. X-47	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work Containment vessel penetration X-47 had gouges below the required wall thickness. These gouges were repaired by welding. The repair work was performed as follows:

1. Prepped gouges for repair welding.
2. Performed NDE examination on the gouges. NDE examination results acceptable.
3. Repaired the gouges by welding.
4. Performed NDE examination on the weld repaired area. NDE examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT (Note 1)
Test Pressure 35.2 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

Note 1 - No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0012

CERTIFICATE OF COMPLIANCE

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

Signed K J Cova Plant Tech. Manager 10/29 19 84
(Owner or Owner's Designee) Title (Date)

K Gough 10/31/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0013

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

1. Owner Washington Public Power Supply System (Name) Date April 12, 1983
3000 George Washington Way, Richland, Wa 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, Wa 99352 (Name) (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P O Box 600 Richland, WA 99352 (Address)

4. Identification of System Reactor Pressure Vessel (RPV)

5. (a) Applicable Construction Code ASME III 19 71 Edition, S. '71 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 74, S'75 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Core Spray	Gould	13	N/A	N/A	N/A	1980	Modification	Yes, Class 1
Brackets	Gould	14	N/A	N/A	N/A	1980	Modification	Yes, Class 1
	Gould	15	N/A	N/A	N/A	1980	Modification	Yes, Class 1
	Gould	16	N/A	N/A	N/A	1980	Modification	Yes, Class 1

7. Description of Work Four seismic supports were added to the RPV for the core spray line. The work covered by this data report includes building up the weld pads and welding the posts to the pad. The four weld pads were built up after UT examination for lamination of the pad area was acceptable. The pads were PT examined as each layer was deposited and had a final PT. The post-to-weld pad weld was PT. All NDE examination results were acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Not Required
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

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

Plan No. 2-0013

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Mgr Engineering (Title) 4/13 (Date) ,19 83

K Empis 4/12/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-14 ,19 83

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

Date 4-14-83 James G. Brent (Inspector) Commissions 6265W (State or Province, National Board)

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

FAC 1 CORRECTED DATA

FAConv 4/11/84
Hearts 4/10/84
Plan No. 2-0014-1

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

1. Owner Washington Public Power Supply System Date 9/19/83
   3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
   P. O. Box 600, Richland, WA (Address)
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 1 FAC 155
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-1.

PLAN NO. 2-0014-1
Installed weld pad on containment vessel wall at Az 168°-51', Elev 575'-8-3/8" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None PCILRT 1
   Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F FAC 155

9. Remarks None 1 FAC 155 1 FAC 155 1 FAC 155 1 FAC 155
   (Applicable Manufacturer's Data Reports to be attached)

FAC 1 155 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

FAC 1 155 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-1

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title WMP2 Mgr Eng (Date) 9/26, 19 83

K Brugh 9/19/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26, 19 83, and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/26/83 [signature] (Inspector) Commissions 7486 W (State ~~XXXXXXX~~ National Board)

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

FAC Comments 4/16/84
4/10/84

FAC 110 ⚠1 CORRECTED DATA

Plan No. 2-0014-2

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
   3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name)
   P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 ⚠1 FAC 110
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-2.

PLAN NO. 2-0014-2

Installed weld pad on containment vessel wall at Az 315°-54', Elev 507'-6'-5/8" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

⚠1 FAC 110

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT
   Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F
9. Remarks None ⚠1 FAC 110 ⚠1 FAC 110 ⚠1 FAC 110 ⚠1 FAC 110
   (Applicable Manufacturer's Data Reports to be attached)

FAC 110 ⚠1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

FAC 110 ⚠1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-2

CERTIFICATE OF COMPLIANCE

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

Signed [illegible] BA Schulerz WNP-2 Mgr Engr 9/26 .19 83
(Owner or Owner's Designee) Title (Date)

9/14/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 83

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

Date 9/26/83 [signature] (Inspector) Commissions 7486 W (State ~~XXXXXXX~~ National Board)

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

FXCown 4/16/85
4/10/84

FAC 1 CORRECTED DATA

Plan No. 2-0014-3

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
   3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name)
   P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236 1 FAC 150
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-3..

PLAN NO. 2-0014-3

Installed weld pad on containment vessel wall at Az 315°-45', Elev 506'-0 -1/4" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

1 FAC 150

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None PCILRT
   Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F
9. Remarks None 1 FAC 150 1 FAC 150 1 FAC 150 1 FAC 150
   (Applicable Manufacturer's Data Reports to be attached)

FAC 150 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

FAC 150 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-3

CERTIFICATE OF COMPLIANCE

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

Signed ~~XXX~~ B A Johnson WNP-2 M&SE Mgr 9/22 .19 83
(Owner or Owner's Designee) Title (Date)

9/11/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington . employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 83

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

Date 9/26/83 W. M. Smith (Inspector) Commissions 7456 WA (State or ~~XXXXXXX~~ National Board)

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

FIX 1 CORRECTED DATA

KD Conn 4/14/84
Accepted 4/10/84
Plan No. 2-0014-4

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA (Address)

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 1 FIX 1

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes; MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-4.

PLAN NO. 2-0014-4
Installed weld pad on containment vessel wall at Az 313°-22', Elev 505'-3" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 FIX 1
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None 1 FIX 1 1 FIX 1 1 FIX 1 1 FIX 1
(Applicable Manufacturer's Data Reports to be attached)

FIX 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

FIX 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-4

CERTIFICATE OF COMPLIANCE

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

Signed [illegible] (Owner or Owner's Designee) Title WCAP-2 Mgr Engr (Date) 9/26, 19 83

K. Singh 9/9/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26, 19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date [illegible] [illegible] (Inspector) Commissions 7467.01 (State ~~XXXXXXXX~~ National Board)

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

FDC Comm 4/01/84
FDC ⚠1 CORRECTED DATA Plan No. 2-0014-5

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

1. Owner Washington Public Power Supply System (Name) Date 7/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250
P. O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236 ⚠1 FJC
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-5.

PLAN NO. 2-0014-5

Installed weld pad on containment vessel wall at Az 235°-0' Elev 577'-7-3/4" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None PCILRT ⚠1 FJC 11/05
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None ⚠1 FJC 11/05 ⚠1 FJC 11/05 ⚠1 FJC 11/05 ⚠1 FJC 11/05
(Applicable Manufacturer's Data Reports to be attached)

FJC 11/05 ⚠1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

FJC 11/05 ⚠ PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-5

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title WPVP-2 11/9/83 (Date) 9/26 ,19 83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 ,19 83

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

Date 9/26/83 [signature] (Inspector) Commissions 7486 A (State or ~~XXXXXXX~~ National Board)

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

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

1. Owner Washington Public Power Supply System (Name) 3000 George Washington Way, Richland, WA (Address) Date 9/26/83 Sheet 1 of 1

2. Plant WNP-2 (Name) Hanford, Benton County, WA (Address) Unit N/A

3. Work Performed by Bechtel Power Corporation (Name) P.O. Box 600 Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.

4. Identification of System Penetration X-53-Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work Fourteen (14) holes were drilled in penetration X-53 to anchor temporary sheet metal. These holes were repaired as follows:

1) Bended all holes to facilitate welding.
2) Weld built up all holes and blended the repaired areas smoothly into surrounding base metal.
3) MT and RT examined the completed welds. MT and RT examination results acceptable.
4) UT examined welded areas for wall thickness check. All thicknesses acceptable.
5) Performed pneumatic test. No evidence of leakage.

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

* Test Pressure 56 psi Test Temp 70.8 °F Component Design Pressure N/A Temp. N/A

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

*Test pressure of 56 PSIG is 1.25 x system design pressure.

Plan No. 2-0027

CERTIFICATE OF COMPLIANCE

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

Signed ~~[illegible]~~ R A Holmberg WNP-2 Mgr Engr 9/26 .19 83
(Owner or Owner's Designee) Title (Date)

K Gwin 9/26/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~[illegible]~~ Washington employed by Lumermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 9-28 .19 83

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

Date 9-28-83 James H Brent (Inspector) Commissions 6265 W (State or ~~[illegible]~~, National Board)

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

Plan No. 2-0029

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

1. Owner Washington Public Power Supply System (Name) Date 4/8/83
3000 George Washington Way, Richland, Wash 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanfor, Benton County, Wa (Address)
3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600 Richland, Wa (Address)
4. Identification of System Standby Liquid Control (SLC)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SLC-TK-1	LAMCO	274	N/A	N/A	N/A	1975	Modified	Yes, Class 2

7. Description of Work Access ladder on the tank had to be relocated due to interference. The ladder was installed on the new location as follows:

1. The original ladder brackets were removed by cutting the brackets as close to the weld as possible and the brackets rough edges were smoothed out. The bracket to tank wall welds were uncut.

2. Installed six new ladder brackets by welding the brackets to the tank wall.

3. All completed ladder bracket to tank wall welds were PT examined. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Not Required
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

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

Plan No. 2-0029

CERTIFICATE OF COMPLIANCE

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

Signed [redacted] B.A. Hohnbaum Mgr Engg WNP-2 4/11/ ,19 83
(Owner or Owner's Designee) Title (Date)

K Singh 4/8/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4/12/ ,1983 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-12-83 James G. Brent (Inspector) Commissions 6265W (State or Province, National Board)

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

Plan No. 2-0030

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

1. Owner Washington Public Power Supply System (Name) Date 2/25/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Washington (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Main Steam (MS)

5. (a) Applicable Construction Code ASME III, 19 71 Edition, W71 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-V-22A	Rock.	JV-2	81	N/A	N/A	1973	Repaired	Yes, Class 1
MS-V-22B	Rock.	JT-37	69	N/A	N/A	1973	Repaired	Yes, Class 1
MS-V-22C	Rock.	JT-54	70	N/A	N/A	1973	Repaired	Yes, Class 1
MS-V-22D	Rock.	JT-41	68	N/A	N/A	1973	Repaired	Yes, Class 1
MS-V-28A	Rock.	JU-53	78	N/A	N/A	1973	Repaired	Yes, Class 1
MS-V-28B	Rock.	JS-98	96	N/A	N/A	1973	Repaired	Yes, Class 1
MS-V-28C	Rock.	JU-17	77	N/A	N/A	1973	Repaired	Yes, Class 1
MS-V-28D	Rock.	JT-78	71	N/A	N/A	1973	Repaired	Yes, Class 1

7. Description of Work: The leak off connections on the bonnet plates were plugged because leak off connections are no longer required. The leak offconnections were plugged as follows:

1. Removed leak off connections, machined the area to remove all deposited weld metal. PT examined the machined surfaces. PT examination results acceptable.
2. PT examined the machined surface of the plug. PT examination results acceptable.
3. Inserted the plug in the bonnet plate hole.
4. Seal welded the plug to the bonnet plate.
5. PT examined the seal weld. PT examination results acceptable.
6. The repaired area was pressure tested to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psi g Test Temp 164 °F Component Design Pressure 1250 psia Temp. 575°F

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

Rock. - Rockwell

Plan No. 2-0030

CERTIFICATE OF COMPLIANCE

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

Signed [signature] Plt Tech Mgr 2/24/84 .19 ____
(Owner or Owner's Designee) Title (Date)

[signature] 2/24/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-25 .19 84

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

Date 2-25-84 James Brent (Inspector) Commissions 6265W (State or ~~Province~~, National Board)

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

Plan No. 2-0031

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600 Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Penetration X-88-Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, Class MC

7. Description of Work Penetration X-88 was modified to meet post-accident sample piping requirements. The modification was performed as follows:

1. Welded two (2) spacer plates. One (1) plate was welded to the penetration and the second plate was welded inside the penetration. Installed pipe through both the plates. Welded the pipe to the plate.
2. PT examined the completed welds. PT examination results acceptable.
3. Performed pressure test to reconfirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psig Test Temp Amb. °F Component Design Pressure 45 psia Temp. 340°F

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

PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0031

CERTIFICATE OF COMPLIANCE

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

Signed D Kovar P&T Technician 2/21/84 .19 ____
(Owner or Owner's Designee) Title (Date)

K Smith 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84

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

Date 2-21-84 L. M. Hoyt (Inspector) Commissions 7486 a (State or ~~Province~~, National Board)

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

Plan No. 2-00 32

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA (Address)

4. Identification of System Off Gas Processive System

5. (a) Applicable Construction Code ASMEIII 1971 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work 1/8" size tapped hole was found on nozzle N-3 of each of the dessicant dryers. These holes were plugges by the following repair method:

1) Inserted 1/8" plug. Length of the plug was equal to the depth of hole.
2) Seal welded the plugs.
3) PT examined the completed welds. PT examination results acceptable.
4) Performed pneumatic test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
** Test Pressure 438 psig Test Temp 72 °F Component Design Pressure 350 psig Temp. 500°F

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

* COSMODYNE

** Test pressure of 438 PSIG is 1.25X system design pressure.

Plan No. 2-0032

CERTIFICATE OF COMPLIANCE

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

Signed B A Hilmes WNP-2 Mgr Engr 9/26 .19 83
(Owner or Owner's Designee) Title (Date)

K Sroufe 4/19/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington . employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair described in this Report on 9/26 .19 83
(Repair(s) or Replacement(s))

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

Date 9/26/83 [signature] Commissions [illegible]
(Inspector) (State or Province, National Board)

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

EJK ⚠ CORRECTED DATA

EJK Comm 4/10/84
EJK Eng 4/10/84

Plan No. 2-0034

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

1. Owner Washington Public Power Supply System Date 3/31/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O.Box 600, Richland, WA 99352 (Address)

4. Identification of System Containment Vessel EJK ⚠

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A ⚠
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980 W '80 Addenda, Code Cases N308 & N236 NC

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, MC

7. Description of Work Found unacceptable linear indications on continuity bar to containment shell weld. The work was performed as follows:
1) Removed unacceptable MT indications.
2) MT examined the excavated area. MT examinations results acceptable.
3) Weld built up the excavated area.
4) MT examined the weld built area. MT examinations results acceptable.

⚠ EJK NC

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None ⚠ EJK/NC ⚠ EJK/NC ⚠ EJK/NC ⚠ EJK/NC
(Applicable Manufacturer's Data Reports to be attached)

EJK/⚠ NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

EJK/⚠ PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0034

CERTIFICATE OF COMPLIANCE

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

Signed B D Wahlberg WNP-2 Mgr Engr 3/24/ .19 83
(Owner or Owner's Designee) (Title) (Date)

3/24/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 3/21 .19 83

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

Date 3/31/83 (Inspector) Commissions 7468W (State or Province, National Board)

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

Plan No. 2-0035

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Johnson Control, Inc. (Name) Contract No. 2808-220
3070 George Washington Way, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument lines PI(1)-ST(1R-83)-1 & 3 and PI(1)-ST(1R-84)-1 & 3

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Reworked supports as follows:

1. Removed support 165-43-001. Modified and reinstalled support 165-43-001 at the same location.
2. Removed support 301-1-168. Reinstalled support 301-1-168 at new location.
3. Removed support 130-11-010. Modified and reinstalled support 130-11-010 at the same location.

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

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

*PI(1)-ST(1R-83)-1 & 3 and PI(1)-ST(1R-84)-1 & 3

Plan No. 2-0035

CERTIFICATE OF COMPLIANCE

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

Signed [signature] C.R. Watts Engr Mgr 1/3 .19 84
(Owner or Owner's Designee) Title (Date)

1/30/85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement and modification (Repair(s) or Replacement(s)) described in this Report on 1-5 .19 84

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

Date 1-5-84 J. Brent (Inspector) Commissions W6265 (State ~~or Province~~, National Board)

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

Plan No. 2-0036

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Washington (Address)

3. Work Performed by Johnson Control, Inc. (Name) Contract No. 2808-220
3070 George Washington Way, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Line PI(1)-4S-X74a

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 1

7. Description of Work Rerouted stamped instrument line PI(1)-4S-X74a. The modification work was performed as follows:

1. Removed existing piping.
2. Installed rerouted piping as shown on design drawing.
3. Made socket welds.
4. PT examined all socket welds. PT examination results acceptable.
5. Performed leak test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1020 psig Test Temp Amb. °F Component Design Pressure 1250 psia Temp. 575°F

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

* PI(1)-4S-X74a
JCI - Johnson Control, Inc.

Plan No. 2-0036

CERTIFICATE OF COMPLIANCE

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

Signed K.D. Cowan (Owner or Owner's Designee) Plt Tech Mgr Title 2/21 (Date) ,19 84

K Swp 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84

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

Date 2-21-84 A. M. [illegible] (Inspector) Commissions 7486W (State or ~~Province~~, National Board)

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

KKC 4/19/84
NSPO 4/10/84

KKC 1 CORRECTED DATA

Plan No. 2-0037

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

1. Owner Washington Public Power Supply System Date 3/31/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O.Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W. '80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Replacement	Yes, MC

7. Description of Work Installed tee stiffeners on the containment vessel wall (shell) at A3148°, elev. 472'-0". These tee stiffeners were installed for platform installation. The work was performed as follows:
1) MT examined containment vessel wall prior to welding.
2) Welded stiffeners to the containment vessel wall.
3) MT examined the welds. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 KKC
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F KKC

9. Remarks None 1 KKC/NSPO 1 KKC/NSPO 1 KKC/NSPO 1 KKC/NSPO
(Applicable Manufacturer's Data Reports to be attached)

KKC/NSPO 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KKC/NSPO 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0037

CERTIFICATE OF COMPLIANCE

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

3/24/83 Signed BBT Plant Engr WNP-2 Maint Mgr 3/24 .19 83
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 3/31 .19 83

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

Date 3/31/83 (Inspector) Commissions 7468W (State or Province, National Board)

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

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

Plan No.2-0038

1. Owner Washington Public Power Supply System. (Name) Date 4/8/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P. O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Closed Cooling Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, S73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components.

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCC-V-27B	Velan	N/A	N/A	N/A	N/A	1976	Repair	Yes, Class 3

7. Description of Work Area on the valve body was blended down to less than the required wall thickness. This area was repaired as follows:

1. Weld built up the excavated area
2. Blended the welded areas smoothly into the adjacent base metal
3. UT examined the welded area for wall thickness
4. PT examined the welded area. PT examination results acceptable
5. Performed hydrostatic test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Test Pressure 244 psi Test Temp 62 °F Component Design Pressure 150 Temp. 212

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

*Test pressure of 244 psig is 1.25 X system design pressure

CERTIFICATE OF COMPLIANCE

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

Signed 4/14/83 B A Holmberg Mgr Engrg NPP-2 4/14 .19 83
(Owner or Owner's Designee) Title (Date)

KSW 4/18/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington . employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 4-14 .19 83

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

Date 4-14-83 James G. Brant (Inspector) Commissions 6265W (State or Province, National Board)

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

Plan No. 2-0043

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Johnson Control, Inc. (Name) Contract No. 2808-220 Repair Organization P.O No., Job No., etc.
3070 George Washington Way, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-4S-X75a

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 1

7. Description of Work Rerouted stamped instrument line PI(1)-4S-X75a. The modification work was performed as follows:

1. Removed existing piping.
2. Installed rerouted piping as shown on design drawing.
3. Made socket welds.
4. PT examined all socket welds. PT examination results acceptable.
5. Performed leak test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1200 psi g Test Temp Amb. °F Component Design Pressure 1250 psia Temp. 575°F

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

* PI(1)-4S-X75a
JCI - Johnson Control, Inc.

Plan No. 2-0043

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Pit Tech Mgr Title 2/3/84 (Date) ,19 ____

2-2-84 2/3/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7 ,19 84

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

Date 2-7-84 [signature] (Inspector) Commissions 7486 W (State or ~~Province~~, National Board)

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

Plan No. 2-0044

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Johnson Control, Inc. (Name) Contract No. 2808-220
3070 George Washington Way, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument line PI(1)-4S-X75b

5.(a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 1

7. Description of Work Rerouted stamped instrument line PI(1)-4S-X75b. The modifications work was performed as follows:

1. Removed existing piping.
2. Installed rerouted piping as shown on design drawing.
3. Made socket welds.
4. PT examined all socket welds. PT examination results acceptable.
5. Performed leak test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1020 psig Test Temp Amb. °F Component Design Pressure 1250 psig Temp. 575°F

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

* PI(1)-4S-X75b
JCI - Johnson Control, Inc.

Plan No. 2-0044

CERTIFICATE OF COMPLIANCE

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

Signed K D Lowe (Owner or Owner's Designee) Plt Tech Mgr (Title) 2/21 (Date) ,19 84

K S Lowe 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 L. M. Elston (Inspector) Commissions 7486 (State or Province, National Board)

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

KAC Conan 4/10/84
Atlantic 4/10/84

KAC 1 MT CORRECTED DATA

WASHINGTON PUBLIC POWER SUPPLY SYSTEM Plan No. 2-0045

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System Date 4/8/83
(Name)
3000 George Washington Way, Richland WA Sheet 1 of 1
(Address)

2. Plant WNP-2 Unit N/A
(Name)
Hanford, Benton County WA
(Address)

3. Work Performed by Bechtel Power Corp. C-250
(Name) Repair Organization P.O No., Job No., etc.
P. O. Box 600 Richland, Wa
(Address)

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236 1 KAC

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, MC

7. Description of Work Unacceptable MT linear indications were found on weld from continuity bar to containment vessel. The unacceptable area was repaired as follows.

1. Removed unacceptable linear indications. Performed MT examination of the excavated area. MT examination results acceptable.

2. Weld built up the excavated area

3. MT examined the weld built up area. MT examination results acceptable

K.Y 1

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~Not Required~~ PCILRT
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None 1 KAC/120 1 KAC/120 1 KAC/120 1 KAC/120
(Applicable Manufacturer's Data Reports to be attached)

KAC/120 1 NOTE-

No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KAC/120 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0045

CERTIFICATE OF COMPLIANCE

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

Signed [illegible] (Owner or Owner's Designee) Title WNP-2 Mgr Eng (Date) 4/11/83, 19 83

K Singh 4/8/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermens Mutual Casualty Co of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 4-12, 19 83

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

Date 4-12-83 James G. Brent (Inspector) Commissions 6265 W (State or Province, National Board)

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

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

Plan No. 2-0046

1. Owner Washington Public Power Supply System (Name) Date 4/8/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County Wa (Address)

3. Work Performed by Bechtel Power Corp (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600 Richland WA (Address)

4. Identification of System Containment Vessel

5.(a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Ves.	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, MC.

7. Description of Work The horizontal-ring girder gusset plate was removed to complete modification to penetration X-88. Modification to penetration X-88 was done under separate plan. New gusset plate was installed as follows:

1) MT examined the cut edges of the gusset plate. MT examination acceptable.

2) MT examined the cut girder gusset plate and the weld. Found unacceptable MT indications in the welds. Removed unacceptable indications. MT examined the excavated area. MT examination results acceptable. Weld built up the excavated are. MT examination acceptable.

3) Welded the new gusset plate. MT examined the weld. MT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ not required
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

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

Plan No. 2-0046

CERTIFICATE OF COMPLIANCE

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

Signed ~~4/8/83~~ B.R. Hahnbaum Mgr Engr WNP-2 4/11 19 83
(Owner or Owner's Designee) Title (Date)

KSW 4/8/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermens Mutual Casualty Co of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 4-12, 19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-12-83 James H. Brant (Inspector) Commissions 6265W (State or Province, National Board)

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

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 2

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA (Address)

4. Identification of System Control Rod Drive - Scram/Instrumentation (Inst.)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CRD-Scram/ Inst.	GEIS&E	CRD-Scram/ Inst.	N/A	N/A	N/A	1982	Modified	Yes, Class 2
CRD-V-93B	BG*	16973	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-103B	BG*	16975	N/A	N/A	N/A	1976	Added	Yes, Class 2
(continued on Sheet 2)								

7. Description of Work Scram Discharge Volume piping system was modified to increase the reliability of the System. Portions of the system which were modified are shown on the attached drawings, CRD-1000-1, CRD-1001-1, and CRD-1002-1. Pipe and fitting materials and valves used during the modification are also identified on these drawings. All the socket welds were PT examined, all the butt welds were RT and MT examined. PT, MT, and RT examination results were acceptable. Upon completion of the work, the modified portion of the system was hydrostatically tested. No evidence of leakage was observed.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
** Test Pressure 1563 psig Test Temp 50 °F Component Design Pressure 1250 psig *** Temp. 280 °F ***

9. Remarks See attached NPV-1 code data reports for valves listed under 6 above.
(Applicable Manufacturer's Data Reports to be attached)

*Borg Warner
**Test pressure of 1563 psig is 1.25 x system working pressure.
***System working pressure and temperature.

Plan No. 2-0047

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title [illegible] (Date) 4/26 ,19 83

K Smith 9/19/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXXX~~ Washington , employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9-28 ,19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9-28-83 James H Grant (Inspector) Commissions 6265W (State or ~~XXXXXX~~, National Board)

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

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

1. Owner Washington Public Power Supply System (Name) Date
3000 George Washington Way (Address) Sheet 2 of 2

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA (Address)

4. Identification of System Contol Rod Dirve - Scram/Instrumentation (Inst.)

5.(a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CRD-V-104B	BG*	16976	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-159A	BG*	16982	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-159B	BG*	16983	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-161B	BG*	17003	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-162B	BG*	17007	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-159C	BG*	16984	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-159D	BG*	16985	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-161A	BG*	16977	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-162A	BG*	16979	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-180	BG*	16837	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-181	BG*	14001	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-156A	BG*	16997	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-156B	BG*	16993	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-156C	BG*	16981	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-156D	BG*	17001	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-157A	BG*	16987	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-157B	BG*	16989	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-157C	BG*	17002	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-157D	BG*	17005	N/A	N/A	N/A	1976	Added	Yes, Class 2
CRD-V-155A	BG*	13996	N/A	N/A	N/A	1976	Added	Yes, Class 1
CRD-V-155B	BG*	13997	N/A	N/A	N/A	1976	Added	Yes, Class 1
CRD-V-155C	BG*	14001	N/A	N/A	N/A	1976	Added	Yes, Class 1
CRD-V-155D	BG*	14003	N/A	N/A	N/A	1976	Added	Yes, Class 1
CRD-V-158A	BG*	14007	N/A	N/A	N/A	1976	Added	Yes, Class 1
CRD-V-158B	BG*	14018	N/A	N/A	N/A	1976	Added	Yes, Class 1
CRD-V-158C	BG*	14005	N/A	N/A	N/A	1976	Added	Yes, Class 1
CRD-V-158D	BG*	14006	N/A	N/A	N/A	1976	Added	Yes, Class 1

0A1062

WBGBR 215 12185

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. Order No. 47713
(Name & Address of Manufacturer)

2. Manufactured for Bovee & Crail/G.E.R.I. P.O. Box 1040, Richland, Washington 99352 Order No. 215-3261
(Name and Address)

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/N 76630, 2 Inch Y Type Globe Valve, CS

Serial Numbers 13996 thru 14020 (25 valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 76630 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 1

Edition 1971, Addenda Date Winter '73, Case No.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc - Code 1F17, 1H16, 1E82	Stellite #6	Rex Precision	
Casting - 71238	NMS 71043	Metals Tech.	
Machined- 71239		NV Division	
(b) Forgings			
Body - 1K84, 1K85	SA - 105	Compton Forge	
Forging - 71224		Pacific Forge	
Machined - 71226-11		NV Division	
Bonnet - Code 1H63, 1G86	SA - 105		
Forged Stock		Airco Viking	
Machined - 71279-11		NV Division	

REVIEWED
NOV 05 1981
BECHTEL QUALITY CONTROL
BY:

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

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
(d)	Other Parts			
	Stem - Code 1K35	SA564TY630		
	Bar Stock		Jorgensen Steel	
	Machined - 73444		NV Division	

8. Hydrostatic test 5400-5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div.of Borg Warner,7500 Tyrone Ave.,Van Nuys,Ca.
Stress analysis report on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA
Design specifications certified by David J. Murphy (1) Prof. Eng. State Wash. Reg. No. 12542
Stress analysis report certified by Byron Leonard Jr. (1) Prof. Eng. State CA Reg. No. E123
(1) Signature not required. List name only.

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

Date Oct. 8 19 76 Signed Nuclear Valve Div. of Borg Warner (Manufacturer) By David J. Murphy

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 Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on Oct. 8 19 76, 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 October 8 19 76

M. Lucia (Inspector) Commissions Calif 1010 (National Board, State, Province and No.)

WBGR 215.12210

0B117

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. 215-32610

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/N 76620, 1 Inch Y Type Globe Valve, C3

Serial Numbers 16834 Thru 16849 (16 Valves)

(Brief description of service for which equipment was designed)

(a) Drawing No. 76620 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 1

Edition 1971, Addenda Date Winter '73, Case No.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc - Code 1N87	Stellite #6		
Casting - 73908	per NMS 71043	Rex Precision	
Machined- 73909		NV Division	
Other Parts			
Stem - Code 1L02 1M05	SA564 Type 630		
Bar Stock		Jorgensen Steel	
Machined - 73907		NV Division	
(b) Forgings			
Body - Code 1L79	SA 105		
Forging - 73677		Pacific Forge	
Machined - 73699		NV Division	
Assembly - 73928		NV Division	
Back Seat - Code 1L90	SA564 Type 630		
Forged Stock		Ducommun Metals	
Machined - 73918		NV Division	

RECEIVED NOV 03 1981 BECHTEL QUALITY CONTROL BY: JB

*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, 3, 4, 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.

NBGBR 215 42
0B117

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

RECEIVED
NOV 03 1981
BECHTEL QUALITY CONTROL
BY: B

8. Hydrostatic test 5400 - 5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclonr Valve Div.of Borg Warner,7500 Tyrone Ave.,Van Nuys,Ca.
Stress analysis report on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA
Design specifications certified by David J. Murphy (1) Prof. Eng. State Wash. Reg. No. 12542
Stress analysis report certified by Byron Leonard Jr. (1) Prof. Eng. State CA Reg. No. E123
(1) Signature not required. List name only.

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

Nuclonr Valve Div.
Date January 14 19 77 Signed of Borg Warner (Manufacturer) By Norma J. Mann

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 Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on January 14 1977, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date January 14 19 77

(Inspector) Commissions Cal 1010 (National Board, State, Province and No.)

UCOI

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. 215-32610

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/N76700-1, 3/4 Inch Gate Valve, CS

Serial Numbers 16972 Thru 16996 (25 Valves)

(Brief description of service for which equipment was designed)

(a) Drawing No. 76700 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No.

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

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

Edition 1971, Addenda Date Winter '73, Case No.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate - Code 1P14	SA487 Gr.CA6NM		
Casting- 75347		Rex Precision	
Machined- 75346		NV Division	
REVIEWED MAY 10 1982 BECHTEL QUALITY CONTROL BY:		REVIEWED APR 28 1982 BECHTEL QUALITY CONTROL BY:	
(b) Forgings			
Body - Code 1K69	SA 105		
Forging - 70453		Pacific Forge	
Machined - 70474		NV Division	
Assembly - 75349		NV Division	
Bonnet - Code 1M28	SA 105		
Forged Stock		Compton Forge	
Machined - 73973-11		NV Division	
Assembly - 73973		NV Division	NOV DR 215 18536

*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.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
(d)	Other Parts			
	Stem - Code 1M35	SA564 Type630		
	Bar Stock		Jorgensen Steel	
	Machined - 75323		NV Division	

8. Hydrostatic test 5400-5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca.

Stress analysis report on file at N/A

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

Stress analysis report certified by N/A (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Date December 30 19 76 Signed Nuclear Valve Div. of Borg Warner (Manufacturer) By R V Palmer

Certificate of Authorization No. 1254 expires October 27, 1978

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of California and employed by Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on December 30 19 76, 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 December 30 19 76

H. H. Lucas (Inspector) Commissions Calif 1910 (National Board, State, Province and No.)

WBG BR 215-18536A

This form (E17) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

OCa

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. Order No. 47713
(Name & Address of Manufacturer)

2. Manufactured for Bovee & Crail/G.E.R.I. P.O. Box 1040, Richland, Washington 99352 Order No. 215-32610
(Name and Address)

3. Owner WPPSS Hanford #2 Job Site

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 16997 Thru 17021 (25 Valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 76700 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No.

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

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

Edition 1971, Addenda Date Winter '73, Case No.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings				
Gate - Code 1P14, 1M62		SA487 Gr.CA6NM		
Casting- 75347			Rex Precision	
Machined- 75346			NV Division	
	REVIEWED		REVIEWED	
	MAY 10 1982		APR 28 1982	
	BECHTEL QUALITY CONTROL		BECHTEL QUALITY CONTROL	
	BY:		BY:	
(b) Forgings				
Body - Code 1K69		SA 105		
Forging - 70453			Pacific Forge	
Machined - 70474			NV Division	
Assembly - 75349			NV Division	
Bonnet - Code 1M28		SA 105		
Forged Stock			Compton Forge	
Machined - 73973-11			NV Division	
Assembly 73973			NV Division	

WDC OR 1-3-1853

*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, 3, 4, 5a, 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 1235	SA564 Type 630		
	Bar Stock		Jorgensen Steel	
	Machined - 75323		NV Division	

8. Hydrostatic test 5400 & 5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca.

Stress analysis report on file at N/A

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

Stress analysis report certified by N/A (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Nuclear Valve Div.

Date December 30 19 76 Signed of Borg Warner (Manufacturer) By R V Palmer

Certificate of Authorization No. 1254 expires October 27, 1978

CERTIFICATE OF SHOP INSPECTION

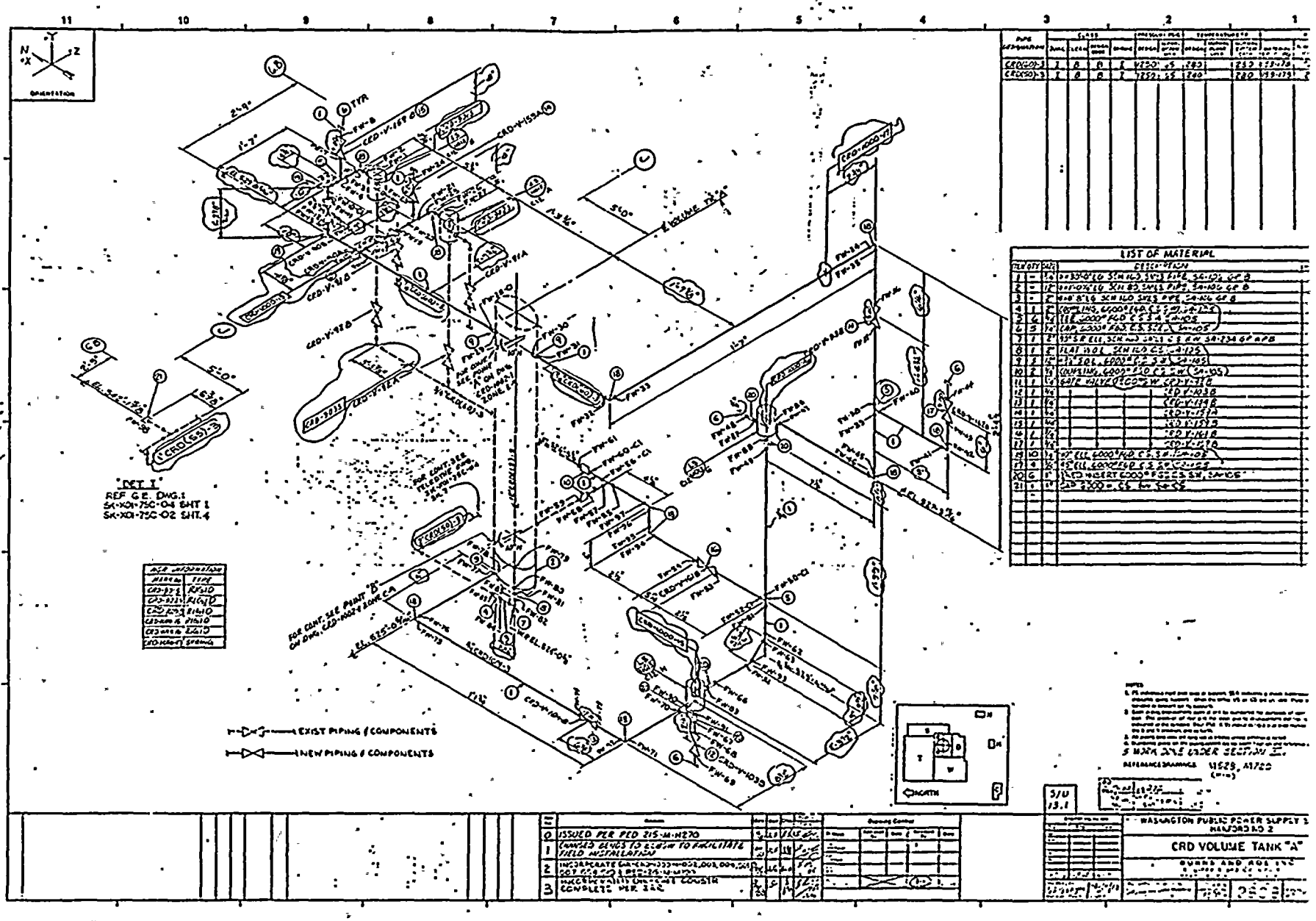
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of California and employed by Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on December 30 19 76, 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.

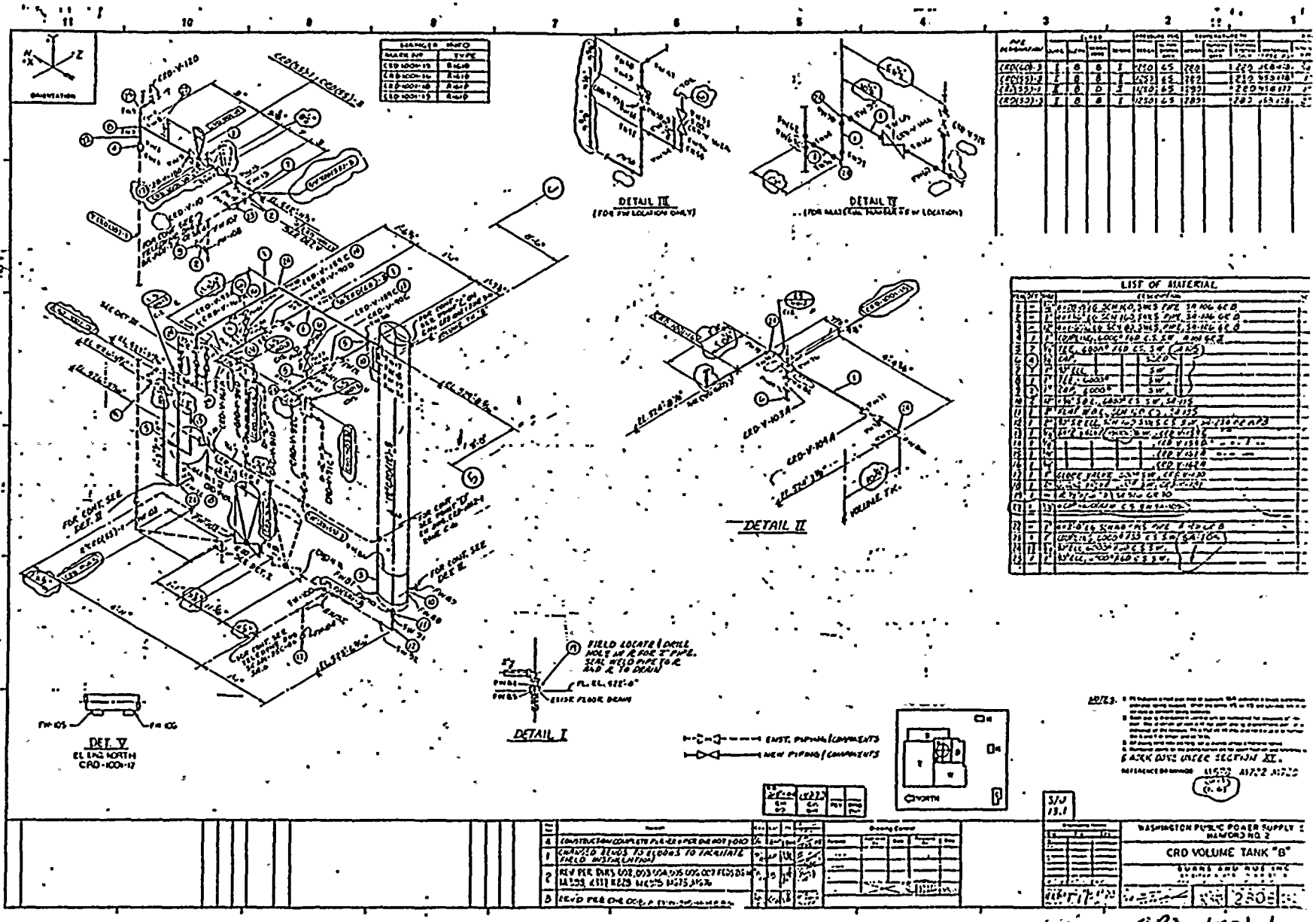
Date December 30 19 76

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

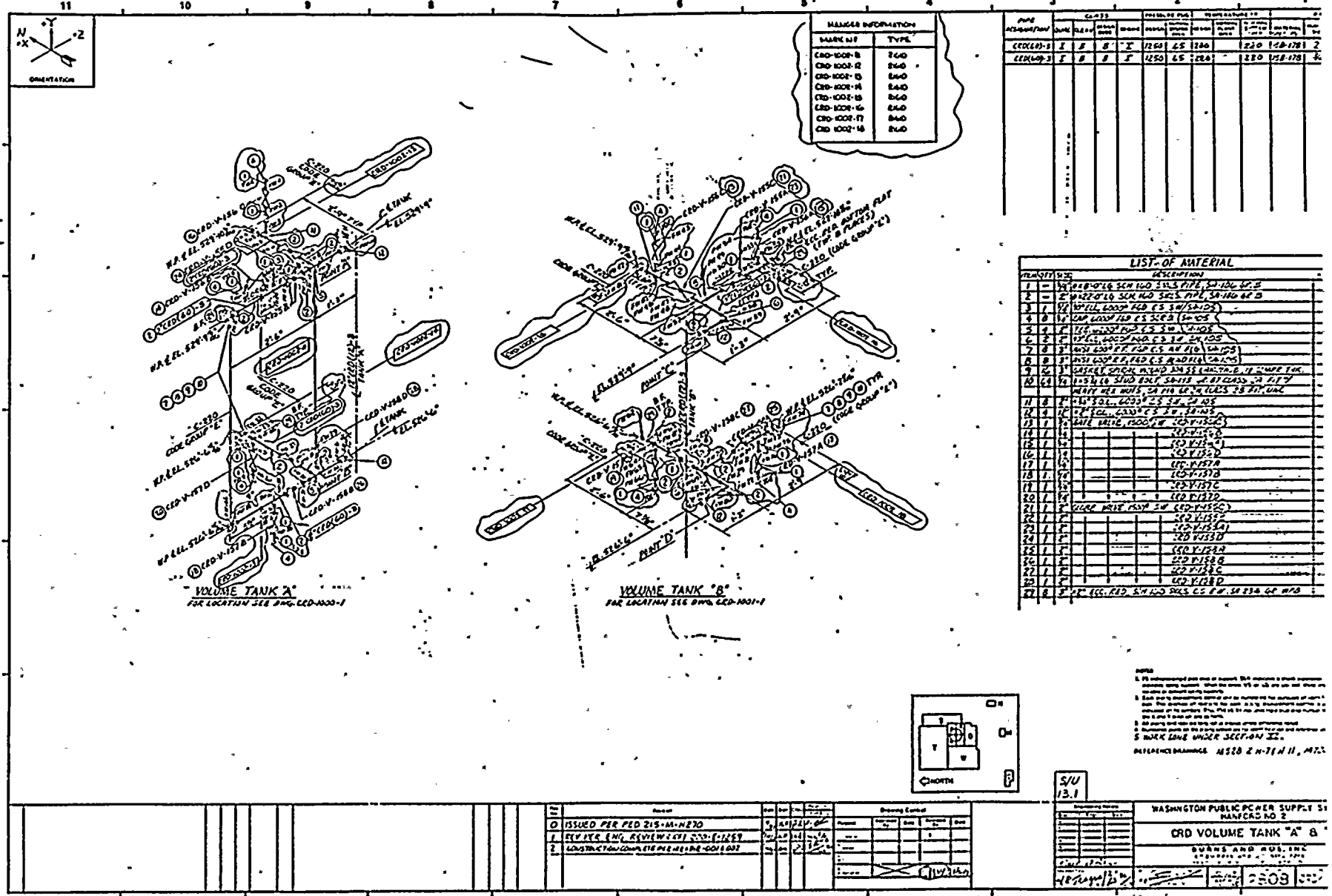
VBG BR 215-18536A



CRD-1000-1
Rev. 3



CRD-1001-1
Rev. 4



CRD-1002-1
Rev. 2

Plan No. 2-0053

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

1. Owner Washington Public Power Supply System (Name) Date 4/2/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Johnson Control, Inc. (Name) Contract No. 2808-220
3070 George Washington Way, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Line PI(1)-4S-X40e

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Replacement	Yes, Class 1

7. Description of Work Replaced bolting material for flanged connection in stamped instrument line PI(1)-4S-X40e. Removed existing bolting material SA-193 Grade B7 and replaced with SA-193 Grade B8. Performed pressure test. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 560 psi g Test Temp Amb °F Component Design Pressure 1250 psig Temp. 575°F

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

* PI(1)-4S-X40e
JCI - Johnson Control, Inc.

Plan No. 2-0053

CERTIFICATE OF COMPLIANCE

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

Signed [signature] [signature] 4/2/84 .19 ____
(Owner or Owner's Designee) Title (Date)

4/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 4-2 .19 84

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

Date 4-2-84 [signature] Commissions 6265 W
(Inspector) (State or Province, National Board)

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

Plan No. 2-0055

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Washington Public Power Supply System (Name) Washington Public Power Supply System Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA 99352 (Address)

4. Identification of System Standby Liquid Control (SLC)

5. (a) Applicable Construction Code ASME III 19 74 Edition, S75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SLC-V-6	BW	49558	N/A	N/A	N/A	1979	Repaired	Yes, Class 1
SLC-V-7	BW	49548	N/A	N/A	N/A	1979	Repaired	Yes, Class 1

7. Description of Work Valve body to bonnet seal welds were cut to remove the internals. The valve seating surfaces were lapped to meet the leakage criteria. Subsequent to this work, the internals were installed in the valve body. The bonnet plate was screwed into the valve body and seal welded as follows:

1. Made body to bonnet plate seal weld.
2. PT examined the seal welds. PT examination results acceptable.
3. Performed leak test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1150 psig Test Temp Amb. °F Component Design Pressure 3600 psig Temp. 100°F

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

BW - Borg Warner

Plan No. 2-0055

CERTIFICATE OF COMPLIANCE

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

Signed K D Conran Pitt Tech Mgr 2/7/84 .19 ____
(Owner or Owner's Designee) Title (Date)

K D Conran 2/7/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-7-84 .19 84

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

Date 2-7-84 J. M. Tiesler (Inspector) Commissions 7486 W (State or Province, National Board)

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

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

1. Owner Washington Public Power Supply System (Name) Date 10/18/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by WPPSS (Name) WPPSS
same as above (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Reactor Feed Water (RFW)

5.(a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr. *	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RFW-V-10A	AC	1N260	N/A	N/A	N/A	1977	Modified	Yes, Class 1
RFW-V-10B	AC	1N257	N/A	N/A	N/A	1977	Modified	Yes, Class 1
RFW-V-32A	AC	1N109	N/A	N/A	N/A	1977	Modified	Yes, Class 1
RFW-V-32B	AC	1N110	N/A	N/A	N/A	1977	Modified	Yes, Class 1

7. Description of Work Reactor Feed Water valves were modified to meet low differential air test leakage criteria. The modifications were performed as follows:

1) Dissambled the valves and removed existing seat rings. PT examined the areas from which the seat rings were removed. PT examination results acceptable.
2) Installed modified seat rings. PT examined the final weld. PT examination results acceptable.
3) Performed Category B-M-2 visual examinations of ~~air~~ valve internal surfaces.
4) Installed modified discs. See attached N-2 NPT Code Data Reports.
5) Reassembled valves.
6) Performed hydrostatic test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
** Test Pressure 1392 psig Test Temp 90 °F Component Design Pressure 2790 psig Temp. 100°F.
2160 psig 700°F.

9. Remarks The following N-2 Code Data Reports for modified discs are attached.
(Applicable Manufacturer's Data Reports to be attached)

Valve No.	Modified Disc Heat & S/N
RFW-V-10A	8166E S/N7
RFW-V-10B	8166E S/N8
RFW-V-32A	5278E S/N5
RFW-V-32B	5278E S/N6

*AC Anchor Darling
**Test pressure of 1392 psig is 1.1 x system normal operating pressure.

Plan No. 2-0057

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) / [signature] Title / [signature] (Date) 10/20/83 .19 83

K Swyt 10/18/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/20 .19 83

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

Date 10/20/83 [signature] (Inspector) Commissions 6265W (State or ~~Province~~, National Board)

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

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

RFW-V-10A

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 (WNP-Sit
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 7 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D11651 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat #8166E SA216-WCB

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

3. Remarks: Modify 24" 900# Swing Check Disc to incorporate Resilient Seats
(Brief description of service for which component was designed)
Reference Drawing - 2633-3, Rev. J

A/DV S.O. R-1545-1

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 3/16 19 83 Signed Anchor/Darling Valve Co. By R S Stannert
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/83 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 or ~~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 1-18 thru 3-16-83 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 3-16 19 83

Russell F. McConaghy Commissions Pennsylvania NC972
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 to 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 (E0000 40) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM N-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PARTS AND APPURTENANCES*

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

RFW-V-108

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 (WNP-Site
(Name and address of N Certificate Holder for completed nuclear components)

2. Identification-Certificate Holder's Serial No. of Part S/N - 8 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D11651 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat # 8166E SA216-WCB

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

3. Remarks: Modify 24" 900# Swing Check Disc to incorporate Resilient Seats
(Brief description of service for which component was designed)

Reference Drawing - 2633-3, Rev. J

A/DV S.O. R-1545-1

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 3/16 19 83 Signed Anchor/Darling Valve Co. By R L Stannett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/83 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 ~~or 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 3-12 thru 3-16-83 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 3-16 19 83

Russell C. McMorrow

Commissions Pennsylvania NC972
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 the 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-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

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

RFW-V-32A

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 (WNP-Sit
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 5 Nat'l Bd No. N/A

(a) Constructed According to Drawing No. D11651 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat # 5278E SA352-LCB

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

3. Remarks: Modify 24" 900# Swing Check Disc to incorporate Resilient Seats
(Brief description of service for which component was designed)
Reference Drawing - 3084-3, Rev. C

A/DV S.O. R-1545-1

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 apourtenances 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 3/16 19 83 Signed Anchor/Darling Valve Co. By R L Hannett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/83 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 ~~or 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 3-12 thru 3-16-83 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 3-16 19 83

FOR INFORMATION ONLY

Russell F. Montgomery

Commissions Pennsylvania #0972
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 to 3 on this Data Report is included on each sheet and (3) each sheet is signed and dated by the Certificate Holder and Inspector.

(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 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provision of the ASME Code Rules, Section III, Div 1 RFW-V-326

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 (WNP-3)
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 6 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D11651 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat #5278E SA352-LCB

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

3. Remarks: Modify 24" 900# Swing Check Disc to incorporate Resilient Seats
(Brief description of service for which component was designed)
Reference Drawing - 3084-3, Rev. C

A/DV S.O. R-1545-1

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 3/16 19 83 Signed Anchor/Darling Valve Co. By R L Stannett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/83 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 ~~or 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 3-16-83 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 3-16 19 83

Russell O. Montgomery Commissions Pennsylvania NC972
Russell O. Montgomery, Inspector's Signature — National Board, State, Province and No.

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

(10/77) This form (E00010) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Plan No. 2-0059

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, Washington (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Washington (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250
P.O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Mid Spray Header

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, MC*

7. Description of Work Non conforming condition was found on mid spray header support (at various azimuths) welds. These welds were repaired as follows:

1. Removed unacceptable MT indications
2. MT examined the excavated areas. MT examination results acceptable.
3. Repair welded the excavated areas.
4. MT examined the repaired area. MT examination results acceptable.

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

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

* PDM data report for containment vessel includes mid spray header and its supports.

Plan No. 2-0059

CERTIFICATE OF COMPLIANCE

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

Signed [signature] CRI Voles Engin Mgr. 1/3 ,19 84
(Owner or Owner's Designee) Title (Date)

1/30/85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 1-5- ,19 84

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

Date 1-5-84 [signature] (Inspector) Commissions 7468W (State ~~or Province~~, National Board)

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

Plan No. 2-0061

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

1. Owner Washington Public Power Supply System (Name) Date 2/29/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Washington Public Power Supply System (Name) Washington Public Power Supply System Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA 99352 (Address)

4. Identification of System Reactor Core Isolation Cooling (RCIC)

5. (a) Applicable Construction Code ASME III 1971 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC-V-19	BW	22295	N/A	N/A	N/A	1977	Replacement	Yes, Class 1

7. Description of Work Valve body to bonnet seal weld was cut to remove broken stem assembly (stem and disc). The replacement work was performed as follows:

1. Cut body to bonnet seal weld.
2. Removed broken stem assembly (stem and disc), and replaced with new stem assembly (stem and disc). See attached N-2 NPT Code Data Report for the disc. S/N 5112
3. PT examined the valve seat and valve back seat. PT examination results acceptable.
4. Installed new stem assembly, screwed body into bonnet and made body to bonnet seal weld. PT examined the seal weld. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 250 psig Test Temp Amb °F Component Design Pressure 3600 psig Temp. 100°F

9. Remarks See attached N-2 NPT Code Data Report for valve disc. S/N 5112
(Applicable Manufacturer's Data Reports to be attached).

BW - Borg Warner

Plan No. 2-0061

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan (Owner or Owner's Designee) P.E. Tech Mgr Title 2/24/84 (Date) .19 ____

K Smith 2/24/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 2-29 .19 84

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

Date 2-29-84 James H Brent (Inspector) Commissions 6265W (State or Province, National Board)

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

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 Plan No. 2-0061
RCIC-V-19

1) Manufactured by Nuclear Valve Division of B.W. 7500 Tyrone Ave. Van Nuys CA 91409
(Name and address of NPT Certificate Holder)

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

2. Identification-Certificate Holder's Serial No. of Part N/C 5B37 S/N 5112 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. 71239-40 Drawing Prepared by NVD of Borg Warner

(b) Description of Part Inspected Disc

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W '75, Case No. N/A Class 1

3. Remarks: Parts supplier herein may not be stamped with the NPT symbol stamp due
(Brief description of service for which component was designed)
to size or other considerations as in NCA 8331.

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 30, 19 83 Signed NVD of Borg Warner By Lenna Neukirche
(NPT Certificate Holder)

Certificate of Authorization Expires October 27, 1984 Certificate of Authorization No. NPT 1255

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Nuclear Valve Div., Borg-Warner, 7500 Tyrone Ave., Van Nuys CA

Stress analysis report on file at N/A

Design specifications certified by N/A Prof. Eng. State N/A Reg. No. N/A

Stress analysis report certified by N/A Prof. Eng. State N/A Reg. No. N/A

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 Lumberman's Mutual Casualty of Long Grove, Illinois have inspected the part of a pressure vessel described in this Partial Data Report on JUNE 30 19 83, 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 6/30 19 83

Inspector's Signature

Commissions 1275 CA - NB7669
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".

Items 4–8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

Seams: Long _____ H.T.[1] _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.[1] _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a)								
(b)								

If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure: _____
(Describe as-welded and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure[2] _____ psi at _____ °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 _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches or gage. Number _____ Type _____
(Str. or U)

Items 11–14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.[1] _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.[1] _____ R.T. _____ No. of Courses _____

13. Heads (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a) Top, bottom, ends								
(b) Channel								

If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure[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 _____ Lugs _____ Legs _____ Other _____ Attachment of Vessel to Base _____
(Yes or No) (Number) (Number) (Describe)

[1] If Postweld Heat-Treated.

[2] _____ with coincident temperature _____

Plan No. 2-0062

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Washington Public Power Supply System (Name) Washington Public Power Supply System Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA 99352 (Address)

4. Identification of System Reactor Core Isolation Cooling (RCIC)

5. (a) Applicable Construction Code Sect. III 19 71 Edition, W72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC-V-66	A/D	1N321	N/A	N/A.	N/A	1978	Modified	Yes, Class 1

7. Description of Work The valve stem leak off connection was plugged as follows:

1. Fabricated plug by machining. Machined surfaces of the plug were PT examined. PT examination results acceptable.
2. Inserted plug in the stem leak off connection and made body to plug seal weld.
3. PT examined the final weld. PT examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psi g Test Temp Amb °F Component Design Pressure 2160 psig Temp. 700°F

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

A/D - Anchor Darling

Plan No. 2-0062

CERTIFICATE OF COMPLIANCE

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

Signed [signature] Asst Technician 2/3/84 .19 ____
(Owner or Owner's Designee) Title ✓ (Date)

2/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modified (Repair(s) or Replacement(s)) described in this Report on 2-7 .19 84

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

Date 2-7-84 [signature] (Inspector) Commissions 7486W (State or Province, National Board)

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

Plan No. 2-0063

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Johnson Control, Inc. (Name) 220 Repair Organization P.O No., Job No., etc.
3070 Geo. Wash. Way, Richland, WA 99352 (Address)

4. Identification of System Instrument Lines

5.(a) Applicable Construction Code Sect. III 19 74 Edition, W75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Modified instrument lines to correct insufficient slope. The instrument lines were modified as follows:

1. Removed portion of existing instrument tubing in each line.
2. Installed rerouted lines.
3. Made required welds.
4. PT examined the welds. PT examination results acceptable.
5. Performed pressure test to reconfirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure See Note 1 psig Test Temp See Note 1 °F Component Design Pressure 1575 psig Temp. 212°F
1250 psig** 575°F**

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

Note 1 - FW-XI-4, 5, 8, and 9 Test Press 1295 psig Test Temp. 83°F
FW-XI-14 and 17 Test Press 1010 psig Test Temp. 164°F

* PI(1)-ST-(H22-P024)-A1, A2, A5, A6, A8, and PI(1)-ST-X73a
** Design pressure and temperature for PI(1)-ST-X73a
JCI - Johnson Control, Inc.

Plan No. 2-0063

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Asst Tech Mgr Title 2/3/84 (Date) .19 ____

2/3/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7 ,19 84

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

Date 2-7-84 [signature] (Inspector) Commissions 7486 W (State or Province, National Board)

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

Plan No. 2-0064

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA (Address)

4. Identification of System Miscellaneous Waste Radioactive (MWR)

5. (a) Applicable Construction Code ASME III 1971 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MWR-EV-117B	J.O.C.*	2200-2B	729	N/A	N/A	1974	Repaired	Yes, Class 3

7. Description of Work Unacceptable PT indications were found on evaporator MWR-EV-117B, Nozzle N-11 weld. The nozzle to evaporator weld was repaired as follows:

1) Removed unacceptable indications
2) PT examined the excavated area. PT examination results acceptable.
3) Welded the excavated area.
4) PT examined the welded area. PT examination results acceptable.
5) Performed hydrostatic test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Test Pressure 37.5** psig Test Temp 74 °F Component Design Pressure 30 PSIG Temp. 274 °F

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

* JOC - Joseph Oat Corporation
** Test pressure of 37.5 PSIG is 1.25 x System operating pressure.

Plan No. 2-0064

CERTIFICATE OF COMPLIANCE

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

Signed B A Hohnbaum WNP-2 R/I Engr 9/26 ,19 83
(Owner or Owner's Designee) Title (Date)

K Gough 9/19/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 9/26, 19 83

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

Date 9/26/83 M. M. Stanton (Inspector) Commissions 7468 (State ~~or Province~~, National Board)

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

Plan No. 2-0065

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Johnson Control, Inc. (Name) 220 Repair Organization P.O No., Job No., etc.
3070 Geo. Wash. Way, Richland, WA 99352 (Address)

4. Identification of System Instrument Lines PI(1)-ST-X42e and PI(1)-ST-X72a

5. (a) Applicable Construction Code Sect. III 1974 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 2

7. Description of Work Modified instrument lines to correct insufficient slope. The instrument lines were modified as follows:

1. Removed portion of existing instrument tubing in each line.
2. Installed rerouted lines.
3. Made required welds.
4. PT examined the welds. PT examination results acceptable.
5. Performed pressure test to reconfirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psig Test Temp 164 °F Component Design Pressure 150 psig Temp. 150°F
1250 psig** 575°F**

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

* PI(1)-ST-X42e and PI(1)-ST-X72a
** Design pressure and temperature for PI(1)-ST-X72a
JCI - Johnson Control, Inc.

Plan No. 2-0065

CERTIFICATE OF COMPLIANCE

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

Signed [signature] [signature] [signature] 7/3/84 19 ____
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-7-84 [signature] Commissions 7486-a
(Inspector) (State or Province, National Board)

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

Plan no. 2-0066

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Washington (Address)

3. Work Performed by Johnson Control, Inc. (Name) Contract No. 2808-220
3070 George Washington Way, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Lines PI(1)-ST(1R-61)-4 and 6

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Replacement	Yes, Class 2

7. Description of Work Section of the instrument tubing to process valves was removed and replaced from PI(1)-ST(1R-61)-4 and PI(1)-ST(1R-61)-6. Replacement tubing and fittings used was threaded (Swagelok) type. Performed normal operating pressure leak test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure ** psi Test Temp Amb °F Component Design Pressure 115 psig Temp. 100°F

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

* PI(1)-ST(1R-61)-4 and PI(1)-ST(1R-61)-6
** 67 psig for PI(1)-ST(1R-61)-4 and 60 psig for PI(1)-ST(1R-61)-6

Plan No. 2-0066

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title Engin Mgr. (Date) 1/3, 19 84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 1-5, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-5-84 James Brent (Inspector) Commissions W6265 (State ~~or Province~~, National Board)

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

Plan No. 2-0067

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA 99352 (Address)

4. Identification of System Reactor Recirculation (RRC)

5. (a) Applicable Construction Code ASME III 1974 Edition, S75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-V-30	BW	53055	N/A	N/A	N/A	1979	Repaired	Yes, Class 1

7. Description of Work: Body to bonnet seal weld was cut to remove valve internals. The valve internals were reinstalled and made body to bonnet seal weld as follows:

1. Made body to bonnet seal weld.
2. PT examined the seal weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None (See Note 1)
Test Pressure _____ psig Test Temp _____ °F Component Design Pressure 3600 psig Temp. 100°F

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

Note 1: Valve (bonnet) operates at atmospheric pressure, therefore, system leakage test not required or performed.

BW - Borg Warner

Plan No. 2-0067

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title Pit Technician (Date) 2/3/84, 19 ____

K Stuff 2/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-7, 19 84

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

Date 2-7-84 [signature] (Inspector) Commissions ~~WA~~ 6265 W (State or Province, National Board)

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

EAC 1 CORRECTED DATA

EQ Comm 4/10/84
EAC 4/10/84
Plan No. 2-0068

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

1. Owner Washington Public Power Supply System (Name) Date 3/14/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA (Address)

4. Identification of System Mid Spray Header Support

5. (a) Applicable Construction Code ASME III 1971 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 1 EAC/MO

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, MC

7. Description of Work Nonconforming (void) condition was found on mid spray header support weld attaching to the containment vessel. This nonconforming (void) condition at Az 318°, Elev. 518'-6" was repaired as follows:

1) Removed unacceptable defects
2) MT examined the excavated area. MT examination results acceptable.
3) Weld excavated area.
4) MT examined excavation area. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 EAC/MO
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F EAC/MO

9. Remarks None 1 EAC/MO 1 EAC/MO 1 EAC/MO 1 EAC/MO
(Applicable Manufacturer's Data Reports to be attached)

EAC/MO 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

EAC/MO 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0068

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title (Date) 4/26 .19 87

V. Stewart 9/11/87

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 9/22 .19 87

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

Date 9/22/87 [signature] (Inspector) Commissions [illegible] (State or Province, National Board)

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

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

1. Owner Washington Public Power Supply System (Name) Date 10/6/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Johnson Control, Inc. (Name) Contract No. 2808-220 Repair Organization P.O No., Job No., etc.
3070 George Washington Way, Richland, WA (Address)

4. Identification of System Instrument Line PI(1)-4S-X71e

5.(a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
**	JCI*	**	N/A	N/A	N/A	1982	Repaired	Yes, Class 1

7. Description of Work Two (2) shear lugs were removed from instrument line PI(1)-4S-X71e. These lugs were removed as follows:

1) Removed shear lugs by cutting or grinding. The lugs were removed to the base metal.

2) PT examined the area from which shear lugs were removed. PT examination results acceptable.

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

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

*Johnson Control, Inc.
**PI(1)-4S-X71e

Plan No. 2-0069

CERTIFICATE OF COMPLIANCE

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

Signed K Swig (Owner or Owner's Designee) Title (Date) 10/6 .19 83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington . employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10-6 .19 83

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

Date 10-6-83 (Inspector) Commissions 7486 W (State or ~~Province~~ National Board)

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

Plan No. 2-0070

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

1. Owner Washington Public Power Supply System (Name) Date 1/16/84
3000 George Washington Way, Richland, Washington 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S 72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W 80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Vessel	PDM*	12764	790	N/A	N/A	1976	Modification	Yes, Class 2

7. Description of Work as follows: Debris screens were added to the open end of penetrations X-3 and X-53

1. A debris screen was tack welded to penetration X-53.
2. The completed welds were PT examined. PT examination results acceptable.
3. A debris screen was welded (with continuous fillet weld) to penetration X-3.
4. The completed weld was PT examined. PT examination results acceptable.

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

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

* Pittsburgh-DesMoines Steel Company

Plan No. 2-0070

CERTIFICATE OF COMPLIANCE

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

Signed C.E. Hughes (Owner or Owner's Designee) Title Engr Mgr (Date) 1/16 ,19 84

1/16/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-17 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-17-84 James Grant (Inspector) Commissions 6265 W (State or Province, National Board)

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

Plan No. 2-0071

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 2

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel Penetrations

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modification	Yes, Class MC

7. Description of Work Containment vessel penetrations X-50, X-52A, X-52B, X-55, X-57, X-58, X-68, X-106A, X-106B, X-106C, and X-106D, were modified by welding closure plate on one end of each of the penetrations. The modification work was performed as follows:

A. Penetrations X-50, X-52A, X-57, X-106A, and X-106B

1. Fabricated closure plates. MT examined the cut edges of the closure plates prior to welding. MT examination results acceptable.
2. Installed closure plates by welding to the open end of each of the penetrations. MT examined the final welds. MT examination results acceptable.

B. Penetrations X-52B, X-55, X-58, X-68, X-106C, and X-106D

1. Fabricated closure plates.
2. Installed closure plates by welding to the open end of each of the penetrations. MT examined the final welds. MT examination results acceptable.

NOTE - MT examination of the cut edges of the closure plates prior to final welding was not performed for these penetrations. The closure plates were UT examined (in place) in lieu of MT examination (continued on Sheet 2)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psig Test Temp. Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0071

CERTIFICATE OF COMPLIANCE

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

Signed K L Crowe (Owner or Owner's Designee) Plt Tech Mgr (Title) 2/21 (Date) .19 84

K Sievers 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 .19 84

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

Date 2-21-84 A. W. Smith (Inspector) Commissions 7486 (State or ~~Province~~, National Board)

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

FORM NIS-2

1. Owner Washington Public Power Supply System Date 2/21/84
   3000 George Washington Way, Richland, WA Sheet 2 of 2
2. Plant WNP-2 Unit N/A
   Hanford, Benton County, WA
3. Work Performed By Bechtel Power Corporation C-250
   P.O. Box 600, Richland, WA 99352 Repair Organization P.O. No., Job No., etc
4. Identification of System Containment Vessel Penetrations

7. Description of Work (Continued)

B. 2. (continued) (cut edges of the closure plates prior to welding). The UT examination method used was straight beam from the plate face. UT examination results were acceptable. See attached letters from Supply System to the State, dated 10/13/83, and letter from the State to the Supply System, dated 12/8/83, pertaining to the use of UT examination on plate cut edges in lieu of MT examination.

C. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

Plan No. 2-0071

JOHN SPELLMAN
Governor

DEPARTMENT OF LABOR AND INDUSTRIES

December 8, 1983

Washington Public Power Supply System
3000 George Washington Way
P. O. Box 968
Richland, Washington 99352

Attention: L. T. Harrold (982A)
Assistant Director, WNP-2 Engineering

SUBJECT: EXAMINATION OF CUT EDGES OF PLATE MATERIAL USED ON SPARE PENETRATIONS
NUCLEAR PROJECT NO. 2

Reference: (a) Your letter of October 13, 1983 G02-83-920 and attachment 1 through 13 Plan No. 2-0071
(b) Your letter of November 23, 1983 G02-83-1094 and enclosures Plan No. 2-0031

Reference (a) requested the use of UT examination of plate edges on spare penetrations as described in attachment #6, in lieu of M.T. or P.T. examination.

The above request is acceptable to this Jurisdiction, as specified.

G. W. Folta
Chief Boiler Inspector

GWF:ab

cc: √T. A. Stanley
R. Frodl

INTERNAL DISTRIBUTION

GK Afflerbach-927M
RE Baker-913E
CS Carlisle-982A
HA Crisp-982B
arrold/LB-982A
BA Holmberg-994E
AN Kugler-988U
RT Johnson-956B
JD Martin-927M
TA Stanley-994E
PK Shen-580
JG Tellefson-982A
WNP-2 Files-917Y
sf(2)-917B
kt/file-994E
[redacted]

THIS LETTER SATISFIES COMMITMENT NO. 42

THIS LETTER (DOES) (DOES NOT) ESTABLISH A NEW COMMITMENT.

WPPSS CORRESPONDENCE NO. _____

Plan No. 2-0071

October 13, 1983
G02-83-920

Mr. G. W. Folta
Chief Boiler Inspector
Department of Labor & Industries
Boiler Section
300 West Harrison
Seattle, Washington 98119

Subject: NUCLEAR PROJECT NO. 2
EXAMINATION OF CUT EDGES OF PLATE MATERIAL

As requested, this is a confirmation of our conference calls of August 1 and 2, 1983. The calls, which were established at 10:15 a.m., included the following individuals:

1. T. A. (Ted) Stanley (Supply System Engineering)
2. Gerald Foster (ANI)
3. George Folta (Chief Boiler Inspector)

Topic of discussions pertained to the examination of cut edges of plate to be used for the closure of spare penetrations on the containment vessel.

It was agreed that the question and reply was as follows:

QUESTION: What other NDE should be used to satisy the requirement of the NE-5610? See attachment (1).

REPLY: UT the cut edges after welding and submit the results.

The UT examination results and supporting documentation are attached.

If you have any questions, please contact Mr. T. A. Stanley at (509) 377-2501, extension 2932.

L. T. Harrold (982A)
Assistant Director, WNP-2 Engineering

TAS:kjt

Attachments: (TO ADDRESSEE ONLY)

FILE COPY

AUTHOR: TA Stanley			FOR SIGNATURE OF: LT Harrold		
SECTION	10/12/83				
FOR APPROVAL OF	BA Holmberg				
APPROVED					
DATE	10/12/83				

WP-387

KAC 1 11/15 CORRECTED DATA

KAConan 4/1/84
4/10/84
Plan No. 2-0072

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA (Address)

4. Identification of System

5.(a) Applicable Construction Code ASME III 1971 Edition, S72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 1 KAC 11/15

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, MC

7. Description of Work Nonconforming condition was found on spray header support weld attaching the containment steel. This nonconforming condition at Az 134° Elev 518' 6" was repaired as follows:

1) Removed unacceptable linear indication.
2) MT examined the excavated area. MT examination results acceptable.
3) Weld excavated area.
4) MT examined welded area. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 KAC 11/15
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None 1 KAC 11/15 1 KAC 11/15 1 KAC 11/15 1 KAC 11/15
(Applicable Manufacturer's Data Reports to be attached)

KAC 1 11/15 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KAC 1 11/15 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0072

CERTIFICATE OF COMPLIANCE

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

Signed [signature] WNP-2 Mgr Engr 9/26 .19 83
(Owner or Owner's Designee) Title (Date)

9/16/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington . employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair described in this Report on 9/26 .19 83
(Repair(s) or Replacement(s))

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

Date 9/26/83 [signature] Commissions 7418 WA
(Inspector) (State or Province, National Board)

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

Plan No. 2-0073

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, Wa 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Wa (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250
P.O. Box 600, Richland, Wa (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work Installed weld pad on the upper horizontal member of the containment vessel reinforcing ring. The installation was performed as follows:

1) Installed by welding the pad to the reinforcing ring at Az 54°, Elev. 544'

2) MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None

Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None

(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0073

CERTIFICATE OF COMPLIANCE

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

Signed B A Schumacher WNP-2 Mgr Engr 9/26 ,19 83
(Owner or Owner's Designee) Title (Date)

V. Gawe 9/29/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington . employed by Lumbermens Mutual Casualty Company of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 ,19 83

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

Date 9/26/83 (Inspector) Commissions (State or ~~Province~~ National Board)

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

Plan No. 2-0074

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel Penetrations

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modification	Yes, Class MC

7. Description of Work Containment vessel penetration process lines were modified by welding closure plugs on one end of each of the process lines. The penetration process lines modified were X-30b, e, X-37a, b, c, d, X-39c, f, X-40a, b, X-41a, b, X-42c, X-54Ab, X-54Ba, X-61d, e, X-67a, e, X-73b, X-74c, d, X-76a, d, X-77a, d, X-77Ab, X-78a, X-79c, d, e, f, X-80a, c, d, e, f, g, h, j, k, l, m, X-81a, b, c, d, e, f, g, h, j, k, l, m, X-83b, c, d, e, f, X-84c, and X-85b. The modification work was performed as follows:

1. Fabricated closure plugs.
2. Installed closure plugs by welding to the open end of each of the process lines. PT examined the final welds. PT examination results acceptable.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psi g Test Temp Amb. °F Component Design Pressure 45 psia Temp. 340°F

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

PDM - Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0074

CERTIFICATE OF COMPLIANCE

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

Signed K Kowa Plt Tech Mgr 2/21 .19 84
(Owner or Owner's Designee) Title (Date)

K Swigs 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 .19 84

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

Date 2-21-84 (Inspector) Commissions 7456 a (State or Province, National Board)

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

Plan No. 2-0075

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel Penetration X-15

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Replacement	Yes, Class MC

7. Description of Work Bolts and nuts (bolting) were replaced for equipment hatch penetration X-15. The bolting material was replaced as follows:

1. Equipment hatch cover was put in place against the front of the barrel flange.
2. With equipment hatch in position, installed the replacement nuts and bolts. The replacement nuts and bolts material used is SA-193 Gr. B7 for nuts and SA-194 Gr. B7 for bolts.
3. Torqued all nuts to the required torque value.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0075

CERTIFICATE OF COMPLIANCE

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

Signed K Kovan (Owner or Owner's Designee) Plt Tech Engr (Title) 2/21 (Date) ,19 84

K Kovan 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84

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

Date 2-21-84 A. M. Smith (Inspector) Commissions 7486a (State or ~~Province~~, National Board)

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

CORRECTED

Plan No. 2-0076

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

1. Owner Washington Public Power Supply System Date 3/27/84
3000 George Washington Way, Richland, WA 99352 (Name) (Address) Sheet 1 of 1

2. Plant WNP-2 Unit
Hanford, Benton County, WA 99352 (Name) (Address)

3. Work Performed by Bechtel Power Corporation C-250
P.O. Box 600, Richland, WA 99352 (Name) (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Residual Heat Removal (RHR)

5. (a) Applicable Construction Code ASME III 19 71 Edition, S71 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-P-2A	IR	0473113	51	N/A	N/A	1974	Modification	Yes, Class 2
RHR-P-2B	IR	0473111	47	N/A	N/A	1974	Modification	Yes, Class 2
RHR-P-2C	IR	0473112	49	N/A	N/A	1974	Modification	Yes, Class 2

7. Description of Work Modified seal injection cooling piping for Residual Heat Removal Pumps RHR-P-2A, 2B, and 2C as follows:

1. Cut existing piping and installed new material by welding.
2. Installed new valves RHR-V-244, S/N GT1505, RHR-V-245, S/N GT1508, and RHR-V-246, S/N GT1503.
3. PT examined final welds. PT examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure * psi Test Temp Amb °F Component Design Pressure 500 psig Temp. 480°F

9. Remarks NPV-1 Code Data Report for the following new valves are attached:
(Applicable Manufacturer's Data Reports to be attached)

Valve Tag No.	Valve S/N
RHR-V-244	GT-1505
RHR-V-245	GT-1508
RHR-V-246	GT-1503

IR - Ingersoll-Rand
*RHR-P-2A - 243 psig
*RHR-P-2B - 242 psig
*RHR-P-2C - 266 psig

CORRECTED PUMP SERIAL NUMBERS AND NATIONAL BOARD NUMBERS

Plan No. 2-0076

CERTIFICATE OF COMPLIANCE

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

Signed K Guys 3/27/84 (Owner or Owner's Designee) Title Plt Tech Mgr (Date) 3/27/84 .19 ____

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 3/27 .19 84

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

Date 3/27/84 (Inspector) Commissions 7486W (State or ~~Province~~, ~~National Board~~)

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

Plan No. 2-0077

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

1. Owner Washington Public Power Supply System Date 1/12/84
3000 George Washington Way, Richland, Washington 99352 (Name, Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name, Address)

3. Work Performed by Bechtel Power Corporation C-250
P. O. Box 600, Richland, WA 99352 (Name, Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S 72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W 80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Pent. X-16	PDM*	12764	N/A	N/A	N/A	1976	Modification	Yes, Class MC

7. Description of Work Personnel access airlock (Penetration X-16) bulkheads (containment and atmosphere bulkheads) were modified as follows:

1. Installed shock absorbers and magnets.
2. Representative from PDM and Burns and Roe witnessed the operation of both containment and atmosphere bulkheads. Operation was acceptable to PDM and Burns and Roe.
3. Performed air pressure test by pressurizing the barrel between both the bulkheads. Air pressure test results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
Test Pressure 35.54** psi Test Temp 84.3 °F Component Design Pressure 45 psia Temp. 340°F

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

*Pittsburgh-Des Moines Steel Company
** The required test pressure is 34.7 psig per FSAR Section 3.8.2.7.5

Plan No. 2-0077

CERTIFICATE OF COMPLIANCE

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

Signed [signature] Eugene Moon 1/17 ,19 84
(Owner or Owner's Designee) Title (Date)

1/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-18 ,19 84

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

Date 1-18-84 [signature] Commissions 7486W
(Inspector) (State or Province, National Board)

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

KRC 4/10/84
Plan No. 2-0078
KRC 4/10/84

KRC 1 CORRECTED DATA

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, Washington (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250
P.O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Mid Spray Header Support

5. (a) Applicable Construction Code ASME III 1971 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308 & N236 1 KRC 4/10

6. Identification of Components Repaired or Replaced, and Replacement Components

	Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont.	Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, MC *

7. Description of Work Nonconforming condition was found on mid spray header support weld to the containment vessel at azimuth 127°, Elev. 518'-6". The weld between the support and the containment vessel was repaired as follows:

1. Removed section of mid spray header support plate to provide access to remove unacceptable MT indications on the containment vessel.
2. Removed unacceptable MT indications.
3. MT examined the excavated area on the containment vessel. MT examination results acceptable.
4. Repair welded the excavated area.
5. MT examined the repaired area. MT examination results acceptable.
6. MT examined the cut edges of the replacement plate to be installed. MT examination results acceptable.
7. Installed replacement plate by welding.
8. MT examined the welds. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~Name~~ PCILRT 1 KRC 4/10
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F KRC 4/10

9. Remarks None 1 KRC 4/10 1 KRC 4/10 1 KRC 4/10 1 KRC 4/10
(Applicable Manufacturer's Data Reports to be attached)

KRC 4/10 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.
* PDM data report for containment vessel includes mid spray header and its supports.

KRC 4/10 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0078

CERTIFICATE OF COMPLIANCE

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

Signed [signature] C.R. Wright Ewin Main 1/3, 19 84
(Owner or Owner's Designee) (Title) (Date)

12/31/85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 1-5, 19 84

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

Date 1-5-84 [signature] (Inspector) Commissions 7468W. (State ~~or Province~~, National Board)

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

Plan No. 2-0079

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, Washington (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Washington (Address)

3. Work Performed by Johnson Control, Inc. (Name) Contract No. 2808-220 Repair Organization P.O No., Job No., etc.
3070 George Washington Way, Richland, WA (Address)

4. Identification of System Instrument Line PI(1)-ST-X-79b

5. (a) Applicable Construction Code ASME III 1974 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Removed supports 301-1, ARN 1749, 1765, 1782, and 200-3-008 and replaced with different design supports 116-1, 100-7 and 315-6.

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

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

* PI(1)-4S-X79b

Plan No. 2-0079

CERTIFICATE OF COMPLIANCE

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

Owner 12/30/83 (Owner or Owner's Designee) Title Engr Mgr (Date) 1/3 .19 84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois, have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 1-5 .19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-5-84 James Brent (Inspector) Commissions W6265 (State or Province, National Board)

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

Plan No. 2-0080

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, Washington (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Johnson Control, Inc. (Name) Contract 2808-220 Repair Organization P.O No., Job No., etc.
3070 George Washington Way, Richland, WA (Address)

4. Identification of System D-220-3500-39.0-SGT-FT-1A1 and 1B2

5. (a) Applicable Construction Code ASME III 1974 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Modified section of instrument tubing to install instruments. Modified instrument line by removing section of tubing and replacing it with compression type tee to facilitate installation of instruments. Performed normal operating pressure leak test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure ** psig Test Temp > 50 °F Component Design Pressure 187.5 psig Temp. 212°F

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

* D-220-3500-39.0-SGT-FT-1A1 and D-220-3500-39.0-SGT-FT-1B2.

** Tested at .062 psig and .072 psig. This test pressure is below the normal operating pressure of .75 psig. See engineering evaluation in the plan for acceptance of the actual test pressures.

Plan No. 2-0080

CERTIFICATE OF COMPLIANCE

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

Signed ~~Engineering Manager~~ 1/3/84 C.P. Watts Engineering Mgr 1/3 ,19 84
(Owner or Owner's Designee) Title (Date)

12/30/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington . employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84

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

Date 1-5-84 James Brent (Inspector) Commissions W 6265 (State ~~or Province~~, National Board)

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

Plan No. 2-0081

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Johnson Controls, Inc. (Name) C-220 Repair Organization P.O No., Job No., etc.
3070 George Washington Way, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-4S-X109 and PI(1)-4S-X112

5.(a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases See N-5

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Repaired	Yes, Class 1
**	JCI	**	N/A	N/A	N/A	1982	Repaired	Yes, Class 1

7. Description of Work Corrected the slope due to construction damage in stamped instrument lines PI(1)-4S-X109 and PI(1)-4S-X112. Repair work was performed as follows:

1. Removed a portion of the existing instrument piping in each line.
2. Installed new material as shown on the design drawings to correct the line slope.
3. Made required welds.
4. PT examined all socket welds. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psig Test Temp 164 °F Component Design Pressure 1250 psig Temp. 550°F

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

JCI - Johnson Control, Inc.
* - PI(1)-4S-X109
** - PI(1)-4S-X112.

Plan No. 2-0081

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Plt Tech Mgr (Title) 7/3/84 (Date) ,19 ____

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-7 ,19 84

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

Date 2-7-84 [signature] (Inspector) Commissions 7488a (State or Province, National Board)

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

Plan No. 2-0082

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Reactor Recirculation (RRC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases See N-5
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
B35-G001A	WPPSS	B35-G001A-P1	N/A	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work The existing reactor recirculation loop sample probe was replaced with a new design sample probe. The replacement work was performed as follows:

1. Cut out weld between existing sample probe and weldolet and also weld between the sample probe and 90° elbow.
2. Reshaped the weldolet weld prep. PT examined the weld prep. PT examination results acceptable.
3. Prepped the 90° elbow weld prep. PT examined the weld prep. PT examination results acceptable.
4. Installed new design sample probe. Performed required welds. PT examined the welds. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1271 psig Test Temp Amb. °F Component Design Pressure 1550 psig Temp: 575 °F

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

Plan No. 2-0082

CERTIFICATE OF COMPLIANCE

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

Signed [signature] Plt Tech Mgr 2/3/84 (Owner or Owner's Designee) Title (Date) ,19 ____

KS 1/7 2/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 2-7 ,19 84

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

Date 2-7-84 [signature] (Inspector) Commissions 7486 (State or Province, National Board)

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

Plan No. 2-0083

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Containment Vessel Penetrations

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modification	Yes, Class MC

7. Description of Work Containment vessel penetration X-82, process line (a), was modified by welding closure plug on one end of the process line. The modification work was performed as follows:

1. Fabricated closure plug..
2. Installed closure plug by welding. PT examined the final weld. PT examination results acceptable.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psi g Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340 °F

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

PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0083

CERTIFICATE OF COMPLIANCE

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

Signed [signature] Rit Tech Mgr 2/21 ,19 84
(Owner or Owner's Designee) Title (Date)

2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84.

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

Date 2-21-84 [signature] Commissions 7486a
(Inspector) (State or Province, National Board)

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

Plan No. 2-0084

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, Wa 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Wa (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250
PO Box 600 Richland, Wa (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel - Ring Girder

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

	Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont.	Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work Welded angle-iron to containment vessel ring girder at Ax 210°, Elev 541' for pipe support as follows:

1) Weld angle iron to ring girder

2) MT examined the completed weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None

Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

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

Plan No. 2-0084

CERTIFICATE OF COMPLIANCE

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

Signed [signature] WNP-2 Mgr E&q 9/26 .19 83
(Owner or Owner's Designee) Title (Date)

Issued 9/19/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 83

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

Date 9/26/83 [signature] Commissions 7485644
(Inspector) (State or Province, National Board)

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

Plan No. 2-0085

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Vessel	PDM*	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work: Repair of mid spray header support to containment vessel weld and base metal repair at azimuth 13° and elevation 518'-6". The repair work was performed as follows:

1. Excavation of the linear indication in the support to containment vessel weld revealed a laminar type indication in the containment vessel.
2. A portion of the spray header support was removed to facilitate a containment vessel base metal repair.
3. The laminar indication in the containment shell was removed. Indication removal verified by MT examination. MT examination results acceptable.
4. The containment vessel base metal weld repair was made. The repair received a final MT, UT for thickness, and UT for bond and defects examination. All examination results acceptable.
5. The removed portion of the spray header support was replaced with new material with a full penetration weld. The weld preparation was MT examined prior to welding. The completed weld and the support to containment vessel fillet welds were MT examined. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

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

*Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0085

CERTIFICATE OF COMPLIANCE

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

Signed K.D. Crowe (Owner or Owner's Designee) Plt Tech Mgr (Title) 2/21 (Date), 19 84

K.D. Crowe 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-21, 19 84

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

Date 2-21-84 H.W. Fealko (Inspector) Commissions 7486W (State or Province, National Board)

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

Plan No. 2-0086

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

1. Owner Washington Public Power Supply System (Name) Date 12/1/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Address)

4. Identification of System Containment Vessel, Penetration X-53

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer 72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

	Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont.	Vessel	PDM	12764	790	N/A	N/A	1976	modified	yes (Class MC)

7. Description of Work Trimmed 3 inches off the containment end of penetration X-53 to provide clearance between the pipe thermal movement and the debris screen to be placed on penetration X-53.

1. Cut 3 inches off the penetration end.
2. MT examined the cut edge. MT examination acceptable.
3. Refer to ASME Section XI Plan 2-0070 for addition of debris screen

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

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

Plan No. 2-0086

CERTIFICATE OF COMPLIANCE

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

Signed [signature] Engr Mgr 12/1 .19 83
(Owner or Owner's Designee) (Title) (Date)

12-1-83 12/1/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 12-2 .19 83

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

Date 12-2-83 [signature] (Inspector) Commissions 7468W (State ~~or Province~~, National Board)

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

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

1. Owner Washington Public Power Supply System (Name) Date 10/11/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford Reservation, Benton County, WA (Address)

3. Work Performed by General Electric (GE) (Name) GE Contract No. C-20106 Repair Organization P.O No., Job No., etc.
175 Curtner Avenue, San Jose, CA (Address)

4. Identification of System Reactor Recirculation (RRC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308 & N252

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
B35-G001A	GE	B35-G001A-P1	N/A	N/A	N/A	1983	Repair	Yes, Class 1
B35-G001B	GE	B35-G001B-P1	N/A	N/A	N/A	1983	Repair	Yes, Class 1

7. Description of Work Performed Induction Heating Stress Improvement (IHSI) on 82 circumferential welds in Reactor Recirculation (RRC) piping system. ASME Section XI Plan No. 2-0087 provides for the implementation of the IHSI process. However, only the attachment and removal of thermocouples to the pressure boundary and PT of the removal area is considered to be within the jurisdiction of ASME Section XI. The ASME Section XI work performed in accordance with Plan No. 2-0087 is as follows:

- o Attached thermocouples to the pressure boundary for IHSI process.
- o Removed thermocouples from the pressure boundary upon completion of the IHSI process.
- o PT examined the areas from which the thermocouples were removed. PT examination results acceptable.

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

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

Plan No. 2-0087

CERTIFICATE OF COMPLIANCE

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

Signed ~~[illegible]~~ B.H. Hohnbaum WNP-2 Mgr. Eng 10/11 ,19 83
(Owner or Owner's Designee) Title (Date)

KSmith 10/11/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~[illegible]~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10-12 ,19 85

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

Date 10-12-85 [signature] (Inspector) Commissions 7486 W (State ~~or Province~~, National Board)

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

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, Washington 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System B35-G001A and B35-G001B

5. (a) Applicable Construction Code ASME III 1971 Edition, W73 Addenda, Code Cases See N-5
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
B35-G001A	See N-5	B35-G001A-P1	N/A	N/A	Below	1983	Repair *	Yes, Class 1
B35-G001B	See N-5	B35-G001B-P1	N/A	N/A	Below	1983	Repair *	Yes, Class 1

7. Description of Work: Removal and restoration of pipe supports to enable induction heating stress improvement of piping welds (Ref. Plan No. 2-0087). The ASME Section XI work performed in accordance with Plan No. 2-0088 is as follows:

1. Supports and snubbers were removed.
2. Material items identity was maintained.
3. Supports and snubbers were re-installed to the original as-built location.
4. The as-built location verified.

Supports involved were:

(B35-G001A) RRC-SA-7, RRC-SA-15, RRC-SA-16, RRC-SA-17, RRC-SA-18, RRC-SA-25, RRC-SA-65, RRC-SA-66, RRC-HA-7.

(B35-G001B) RRC-SB-7, RRC-SB-15, RRC-SB-17, RRC-SB-18, RRC-SB-65, RRC-SB-66, RRC-HB-7.

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

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

* REMOVAL AND REINSTALLATION

K Leigh
12/30/83

Plan No. 2-0088

CERTIFICATE OF COMPLIANCE

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

Signed The Stanley 1/3/84 C.P. Nagy Engineer 1/3 ,19 84
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair * (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84

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

Date 1-5-84 James Brent (Inspector) Commissions W6265 (State ~~or Province~~, National Board)

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

Plan No. 2-0089

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Line PI(1)-4S-X39e

5. (a) Applicable Construction Code ASME III 1974 Edition, W75 Addenda, Code Cases See N-5
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identi-fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 1

7. Description of Work A portion of instrument line PI(1)-4S-X39e was modified to avoid interference with line 10" MS(18)-2. The modification work performed is as follows:

1. Section of pipe to be rerouted was removed.
2. Installed rerouted piping and made required welds.
3. PT examined the completed welds. PT examination results acceptable.
4. Performed pressure test to reconfirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psi Test Temp 164 °F Component Design Pressure 1250 psi Temp. 550°F

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

JCI - Johnson Controls, Inc.
* - PI(1)-4S-X39e

Plan No. 2-0089

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title Plt Tech Mgr (Date) 2/3/84 .19 ____

2/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7 .19 84

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

Date 2-7-84 [signature] (Inspector) Commissions 7486W (State or Province, National Board)

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

Plan No. 2-0090

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Washington Public Power Supply System (Name) Washington Public Power Supply System Repair Organization P.O No., Job No., etc.
3000 Geo. Washington Way, Richland, WA (Address)

4. Identification of System Instrument Line Valve PI-V-X42a

5.(a) Applicable Construction Code ASME III 19 74 Edition, W 75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W 80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PI-V-X42a	B-W*	52907	N/A	N/A	N/A	1979	Replacement	Yes, Class 1

7. Description of Work Broken stem assembly was replaced for valve PI-V-X42a S/N 52907 as follows:

1. Cut body to bonnet seal weld and removed broken stem assembly from valve PI-V-X42a, S/N 52907.
2. Cut body to bonnet seal weld and removed stem assembly from spare valve S/N 79091.
3. Installed stem assembly from spare valve S/N 79091 in valve PI-V-X42a, S/N 52907.
4. Made body to bonnet seal weld.
5. PT examined the body to bonnet seal weld. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ None
Test Pressure 1035 psi Test Temp Amb. °F Component Design Pressure 3600 psig Temp. 100°F

9. Remarks NPV-1 Code Date Report for spare valve S/N 79091 from which replacement stem assembly was removed and installed in valve PI-V-X-42a, S/N 52907 NPV-1 Code Data Report for spare valve S/N 79091 is attached.
(Applicable Manufacturer's Data Reports to be attached)

*Borg-Warner

Plan No. 2-0090

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan (Owner or Owner's Designee) Title Pitt Tack Mgr (Date) 2/3/84 .19 ____

K Swat 2/4/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 2-7- .19 84

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

Date 2-7-84 J. M. Smith (Inspector) Commissions 7486W (State or Province, National Board)

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

Plan No. 2-0090

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

As Required by the Provisions of the ASME Code, Section III, Div. 1 BOOK # 0 H8 38

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)
2. Manufactured for Johnson Controls, Inc. P.O. Box 429, Richland, Washington 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation Hanford #2 Jobsite, Richland, Washington
(Name and Address)
4. Pump or Valve Globe Valve, . Nominal Inlet Size 1 (inch) Outlet Size 1 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	79089 thru 79112	N/A	106DCA1-004	1	N/A	1982
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class 1500 (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 4W69	Colmonoy #4	Rex Precision	
(b) Forgings			
Body-Code 1M55	SA 182 F316	Pacific Forge	
2E98	SA 182 F316	Kawaguchi	
Bonnet-Code 1N15	SA 182 F316	Crucible	

(1) For manually operated valves only.

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

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

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., Edition 1974, Addenda Winter '75 (Date), Code Case No. N/A 11/29/82

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

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

CERTIFICATION OF DESIGN

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

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

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

PE State Wash. Reg. No. 13579

Stress analysis certified by (1) David Wurangian

PE State CA Reg. No. 19547

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 11/30 19 82, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 11/30 19 82

Plan No. 2-0091

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

1. Owner Washington Public Power Supply System (Name) Date 2/27/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Residual Heat Removal (RHR)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, Code Cases 1516
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-V-21	A/D	2N-402	N/A	N/A	N/A	1975	Replacement	Yes, Class 2
RHR-V-24A	A/D	2N-407	N/A	N/A	N/A	1975	Replacement	Yes, Class 2
RHR-V-24B	A/D	2N-381	N/A	N/A	N/A	1975	Replacement	Yes, Class 2
RHR-V-48A	A/D	2N-379	N/A	N/A	N/A	1975	Replacement	Yes, Class 2
RHR-V-48B	A/D	2N-378	N/A	N/A	N/A	1975	Replacement	Yes, Class 2

7. Description of Work Replaced valve body to bonnet stud material for valves RHR-V-21, 24A, 24B, 48A, and 48B. Removed existing studs SA-193 Gr. B7 and replaced them with SA-540 Gr. B23 CL2.
Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure * psig Test Temp Amb °F Component Design Pressure 720 psia Temp. 100°F

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

A/D - Anchor Darling
*RHR-V-21- 266 psig
*RHR-V-24A - 256 psig
*RHR-V-24B - 235 psig
*RHR-V-48A - 235 psig
*RHR-V-48B - 242 psig

Plan No. 2-0091

CERTIFICATE OF COMPLIANCE

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

Signed [signature] [signature] 2/24/84 .19 ____
(Owner or Owner's Designee) Title (Date)

2/24/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 2-27, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-27-84 [signature] Commissions 7486 W
(Inspector) (State or Province, National Board)

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

Plan No. 2-0092

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

1. Owner Washington Public Power Supply System (Name) Date 1/18/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Address)

4. Identification of System Containment Purge Supply (CSP)

5. (a) Applicable Construction Code Sect. III 19 71 Edition, W 72 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W 80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CSP-V-1	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2
CSP-V-2	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2
CSP-V-3	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2
CSP-V-4	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2
CSP-V-5	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2
CSP-V-6	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2
CSP-V-9	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2

7. Description of Work: Modified valves by welding shear plates (bracing) to the valve operator support posts as follows:

1. Cut shear plates to the required dimensions and MT examined the cut edges. MT examination results acceptable.
2. Welded shear plates (bracing) to the valve operator support posts.
3. MT examined the final welds. MT examinations results acceptable.

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

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

Plan No. 2-0092

CERTIFICATE OF COMPLIANCE

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

Signed C.R. Nafts (Owner or Owner's Designee) Engr Mgr. (Title) 1/18 (Date) .19 84

K.E.W. 1/18/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the Modification (Repair(s) or Replacement(s)) described in this Report on 1-18, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-18-84 James Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0092

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

1. Owner Washington Public Power Supply System Date 1/18/84
3000 George Washington Way, (Name) Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2. Unit N/A
Hanford, (Name) Benton County, WA
3. Work Performed by Bechtel (Address) Power Corp. C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, (Name) Richland, WA (Address)
4. Identification of System Containment Purge Exhaust (CEP)
5. (a) Applicable Construction Code Sect. III 19 71 Edition, W 72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W 80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CEP-V-1A	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2
CEP-V-2A	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2
CEP-V-3A	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2
CEP-B-4A	BIF	N/A	N/A	N/A	N/A	1976	Modification	Yes, Class 2

7. Description of Work Modified valves by welding shear plates (bracing) to the valve operator support posts as follows:

1. Cut shear plates to the required dimensions and MT examined the cut edges. MT examination results acceptable.
2. Welded shear plates (bracing) to the valve operator support posts.
3. MT examined the final welds. Mt examinations results acceptable.

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

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

Plan No. 2-0092

CERTIFICATE OF COMPLIANCE

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

Signed C.P. Hughes Engin Mgr 1/18 .19 84
(Owner or Owner's Designee) Title (Date)

K.S. Hughes 1/18/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-18 .19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-18-84 James Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0093

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization, P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA 99352 (Address)

4. Identification of System Residual Heat Removal (RHR)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-V-50B	Velan	0414	N/A	N/A	N/A	1978	Repaired	Yes, Class 1

7. Description of Work The valve leak-off connection was plugged. This work performed is as follows:

1. The bonnet plate assembly from which the leak-off connection was removed was PT examined. PT examination results acceptable.
2. An SA-105 plug was added. The plug surfaces were PT examined prior to insertion. PT examination acceptable.
3. Welded plug in the bonnet. The plug to bonnet weld was PT examined. PT examination acceptable.
4. Performed pressure test to reconfirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1274 psi g Test Temp Amb. °F Component Design Pressure 1560 psi Temp. 575°F

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

Plan No. 2-0093

CERTIFICATE OF COMPLIANCE

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

Signed K Cowan (Owner or Owner's Designee) Title Asst Manager (Date) 2/3/84 .19 84

K Cowan 2/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-7 .19 84

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

Date 2-10-84 D. M. Foster (Inspector) Commissions 7486 W (State or Province, National Board)

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

Plan No. 2-0094

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument lines PI(1)-4S-X37e and PI(1)-4S-X37f

5. (a) Applicable Construction Code ASME III 1974 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 1

7. Description of Work Modified instrument lines PI(1)-4S-X37e and PI(1)-4S-X37f as follows:
1. Removed portion of existing instrument piping.
2. Installed rerouted instrument piping by welding.
3. PT examined final welds. PT examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1090 psig Test Temp Amb. °F Component Design Pressure 1562.5 psig Temp. 534°F

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

* PI(1)-4S-X37e and PI(1)-4S-X37f
JCI - Johnson Control, Inc.

Plan No. 2-0094

CERTIFICATE OF COMPLIANCE

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

Signed K Conran Plt Tech Mgr 2/7/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

2/7/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-7-84 (Inspector) Commissions 7486a (State or Province, National Board)

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

Plan No. 2-0095

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Containment Vessel - Mid Spray Header Support

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308 & N 236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Vessel	PDM*	12764	790	N/A	N/A	1976	Repaired	Yes, MC**

7. Description of Work Repair of mid spray header support to containment vessel weld and base metal repair at azimuth 20°, elevation 518'-6". The repair work was performed as follows:

1. Excavation of the linear indication in the support to containment vessel weld revealed a laminar type indication in the containment vessel.
2. A portion of the spray header support was removed to facilitate a containment vessel base metal repair.
3. The laminar indication in the containment shell was removed. Indication removal verified by MT examination. MT examination results acceptable.
4. The containment vessel base metal weld repair was made. The repair received a final MT, UT for thickness, and UT for bond and defects examination. All examination results acceptable.
5. The removed portion of the spray header support was replaced with new material with a full penetration weld. The weld preparation was MT examined prior to welding. The completed weld and the support to containment vessel fillet welds were MT examined. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

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

*Pittsburgh-Des Moines Steel Company
**PDM data report for containment vessel includes mid spray header and its supports.
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0095

CERTIFICATE OF COMPLIANCE

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

Signed K Lowan Dir Tech Mgr 2/21 ,19 84
(Owner or Owner's Designee) Title (Date)

K Lowan 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 H. M. Smith (Inspector) Commissions 7488a (State or Province, National Board)

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

Plan No. 2-0096

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-4S-X69a

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases See N-5
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 1

7. Description of Work A portion of process instrument line PI(1)-4S-X69a was modified to avoid interference with line 26" MS(1)-4. Work performed is as follows:

1. Section of pipe to be rerouted was removed.
2. Assembled the modified pipe section of new materials.
3. Performed the new welds.
4. PT examined the completed welds. PT examination results acceptable.
5. Performed pressure test to reconfirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psig Test Temp 164 °F Component Design Pressure 1250 psig Temp. 541°F

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

JCI - Johnson Control, Inc.
* PI(1)-4S-X69a

Plan No. 2-0096

CERTIFICATE OF COMPLIANCE

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

Signed K D Gow Pkt Tool Mg 2/3/84 .19 ____
(Owner or Owner's Designee) Title (Date)

K D Gow 2/3/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7 .19 84

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

Date 2-7-84 D. M. Stotts (Inspector) Commissions 7466W (State or Province, National Board)

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

Plan No. 2-0097

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Line PI(1)-4S-X73a

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases See N-5
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 1

7. Description of Work A portion of process instrument line PI(1)-4S-X73a was modified to avoid interference with line 10" MS(18)-2. Work performed is as follows:

1. Section of pipe to be rerouted was removed.
2. Assembled the modified pipe section of new materials.
3. Performed the new welds.
4. PT examined the completed welds. PT examination results acceptable.
5. Performed pressure test to reconfirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psig Test Temp 164 °F Component Design Pressure 1015 psi Temp. 534°F

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

JCI - Johnson Control, Inc.
* PI(1)-4S-X73a

Plan No. 2-0097

CERTIFICATE OF COMPLIANCE

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

Signed K.D. Crowson Plt Tech Mgr 2/3/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

2/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-7-84 J. M. Fowler (Inspector) Commissions 7486 U (State or Province, National Board)

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

Plan No. 2-0098

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

1. Owner Washington Public Power Supply System (Name) Date 11/28/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System PI(1)-ST-(H22-P024)-A8 (instrument line PI(1)-ST-HPCS-P1-2)

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Rerouted stamped instrument line PI(1)-ST-HPCS-P1-2. The modification work was performed as follows:

1) Removed portion of the existing instrument piping.
2) Installed rerouted instrument piping as shown on the design drawings.
3) Made required field welds.
4) PT examined all socket field welds. PT examination results acceptable.
5) Performed system leakage test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1295 psig Test Temp 83 °F Component Design Pressure 1250 psig Temp. 120°

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

*Johnson Control Inc.
**PI(1)-ST-(H22-P024)-A8

Plan No. 2-0098

CERTIFICATE OF COMPLIANCE

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

Signed [signature] [signature] Engineer 12/1 ,19 83
Owner or Owner's Designee Title (Date)
12/1/83 11/25/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair's) or Replacement(s) described in this Report on 12-2 ,19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12-2-83 [signature] Commissions 7486 w
(Inspector) (State or Province, National Board)

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

Plan No. 2-0100

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

1. Owner Washington Public Power Supply System (Name) Date 1/17/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Washington Public Power Supply System (Name) Washington Public Power Supply System Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA (Address)

4. Identification of System Reactor Recirculation (RRC) System

5. (a) Applicable Construction Code Sect. III 19 71 Edition, W 73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W 80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-V-13B	B-W*	17167	N/A	N/A	N/A	1976	Repaired and replaced	Yes, Class 2

7. Description of Work Body to bonnet seal was cut to remove valve internals. (Note - During the process of cutting body to bonnet seal weld for valve RRC-V-13B (SN-17167), the bonnet was damaged. The damaged bonnet was replaced with bonnet (Code 2 W80). The replacement bonnet (Code 2 W80) was obtained from spare valve SN-51755). The valve internals and bonnet was installed in the valve body as follows:

1. Installed valve internals.
2. Screwed bonnet into valve body and made body to bonnet seal weld.
3. PT examined seal weld. PT examination results acceptable.
4. Performed pressure test to confirm the pressure boundary integrity.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1535 psi Test Temp Amb. °F Component Design Pressure 3600 psig Temp. 100°F

9. Remarks NPV-1 Code Data Report for spare valve SN-51755 from which replacement bonnet (Code 2W80) was removed and installed in valve RRC-V-13B, SN-17167. (Applicable Manufacturer's Data Reports to be attached)

* Borg-Warner

Plan No. 2-0100

CERTIFICATE OF COMPLIANCE

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

Signed C.R. Nelson Engr Mgr 1/17 ,19 84
(Owner or Owner's Designee) Title (Date)

K.S.W. 1/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the repair & replacement (Repair(s) or Replacement(s)) described in this Report on 1-18, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-18-84 M. M. Ford (Inspector) Commissions 7486 (State or Province, National Board)

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

Plan. No. 2-0100

WBG BR 215-14439

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 Lift Check 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#	51754 & 51755	N/A	76740-1	2	N/A	1979
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

QD936

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 2F62	Stellite #6	Rex Precision	
2E63			
(b) Forgings			
Body-Code 1H27	SA 182 F 316	Pacific Forge	
Bonnet-Code 2W80	SA 182 F 316	Crucible	

REVIEWED
FEB 23 1982
BECHTEL QUALITY CONTROL
BY:

(1) For manually operated valves only.

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

(10/77) This form (E00021) 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			
N/A			

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

WBO BR 215-14439

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 8/21/79

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

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

CERTIFICATION OF DESIGN

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

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

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 8/21, 1979, 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 8/21, 1979

[signature] (Inspector)

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

Plan No. 2-0101

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

1. Owner Washington Public Power Supply System (Name) Date 2/22/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Reactor Recirculation (RRC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases See N-5
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
B35-G001A	WPPSS	B35-G001A-P1	N/A	N/A	N/A	1983	Replacement	Yes, Class 1
B35-G001B	WPPSS	B35-G001B-P1	N/A	N/A	N/A	1983	Replacement	Yes, Class 1

7. Description of Work The studs and nuts attaching the blind flanges on the four decontamination connections on 24" RRC(2)-4S did not meet notch toughness requirements and were replaced as follows:

1. New studs of SA-193 B7 material and new nuts of SA-194 B7 material with acceptable notch toughness were installed. Eight studs and 16 nuts per flange. Torqued all nuts to the required torque value.
2. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

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

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

*Pump Suction 1250 psig at 575°F
*Pump Discharge 1650 psig at 575°F
**Pump Suction 1036.5 psig
**Pump Discharge 1276.5 psig

Plan No. 2-0101

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan (Owner or Owner's Designee) Pit Tech Mgr (Title) 2/21 (Date) ,19 84

K Stuart 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on _____, 19 ____ and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-22-84 James Brent (Inspector) Commissions 6265 W (State or Province, National Board)

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

Plan No. 2-0102

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

1. Owner Washington Public Power Supply System Date 12/30/83
3000 George Washington Way, Richland, WA 99352 Sheet 1 of 1
(Name) (Address)

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352
(Name)

3. Work Performed by Bechtel Power Corp C-250
(Address)
P.O. Box 600, Richland, WA 99352
(Name) (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System PI(1)-ST-(H22-P002)-A12 and PI(1)-ST-(H22-P002)-A13

5. (a) Applicable Construction Code ASME III 1974 Edition, W '75 Addenda, Code Cases See N-5
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W '80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Same as 4 above	JCI*	Same as 4 above	N/A	N/A	N/A	1983	remove & reinstall	Yes, Class 3
	*Johnson Controls, Inc.							

7. Description of Work Removal and reinstallation of hanger B-220-HGR-110-2 to facilitate floor penetration sealing. After hanger reinstallation the as-built location and anchor torquing was verified.

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

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

Plan No. 2-0102

CERTIFICATE OF COMPLIANCE

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

Signed [signature] 1/3/84 C.P. Nagle Engr Mgr 1/3 .19 84
(Owner or Owner's Designee) Title (Date)

1/30/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the removal and reinstallation (Repair(s) or Replacement(s)) described in this Report on 1-5, 19 84

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

Date 1-5-84 James Brant (Inspector) Commissions W6265 (State ~~or Province~~, National Board)

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

Plan No. 2-0103

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84.
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work: Unacceptable MT linear indications were found on welds attaching reinforcing plates on the containment vessel. The unacceptable MT indications were repaired as follows:

1. Removed unacceptable MT indications by grinding.
2. MT examined the excavated area. MT examination results acceptable.
3. Repaired excavated areas by welding.
4. MT examined the weld repaired areas. MT examination results acceptable.
5. Performed 48 hours MT examination. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psi g Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0103

CERTIFICATE OF COMPLIANCE

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

Signed K.J. Cowan (Owner or Owner's Designee) Dist Tech Mgr (Title) 2/21 (Date) .19 84.

K Scott 2/21/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-21, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 (Inspector) Commissions 7486 (State or Province, National Board)

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

Plan No. 2-0104

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

1. Owner Washington Public Power Supply System (Name) Date 1/16/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Address)

4. Identification of System Instrument Line PI(1)-4S-X85e

5. (a) Applicable Construction Code ASME III 19 74 Edition, W 75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W 80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PI(1)-4S-X85e	JCI*	N/A	N/A	N/A	N/A	1983	**	Yes, Class 2 (NF)

7. Description of Work Support B-220-836-14 was removed and reinstalled at a new location. The work was performed as follows:

1. The support removal area was visually examined. Visual examination results acceptable.
2. Relocated support B-220-836-14 and made required welds.
3. No new base material was added.
4. The completed welds were visually examined. Visual examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☑ None
Test Pressure N/A psi Test Temp N/A °F Component Design Pressure N/A Temp. N/A

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

* Johnson Controls, Inc.
** Removal and Reinstallation.

Plan No. 2-0104

CERTIFICATE OF COMPLIANCE

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

Signed [signature] Eugie Main 1/16 .19 84
(Owner or Owner's Designee) Title (Date)

1/16/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the * described in this Report on 1-17- .19 84

(Repair(s) or Replacement(s))

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

Date 1-17-84 James G. Brent Commissions 6265W
(Inspector) (State or Province, National Board)

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

* Removal and Reinstallation

Plan No. 2-0105

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Containment Vessel - Mid Spray Header Support

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes, MC*

7. Description of Work: Repair of mid spray header support to containment vessel weld and base metal repair at azimuth 341°, elevation 518'-6". The repair work was performed as follows:

1. Excavation of the linear indication in the support to containment vessel weld revealed a laminar type indication in the containment vessel.
2. A portion of the spray header support was removed to facilitate a containment vessel base metal repair.
3. The laminar indication in the containment shell was removed. Indication removal verified by MT examination. MT examination results acceptable.
4. The containment vessel base metal weld repair was made. The repair received a final MT, UT for thickness, and UT for bond and defects examination. All examination results acceptable.
5. The removed portion of the spray header support was replaced with new material with a full penetration weld. The weld preparation was MT examined prior to welding. The completed weld and the support to containment vessel fillet welds were MT examined. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psig Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

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

PDM - Pittsburgh-Des Moines Steel Company
* PDM data report for containment vessel includes mid spray header and its supports.
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0105

CERTIFICATE OF COMPLIANCE

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

Signed H D Cowan (Owner or Owner's Designee) Plt Tech Mgr (Title) 2/21 (Date) ,19 84

K Gauch 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 (Inspector) Commissions 7486 W (State or Province, National Board)

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

Plan No. 2-0106

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Reactor Recirculation (RRC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-SA-1	WPPSS	B35-G001A-P1	N/A	N/A	N/A	1983	Modification	Yes, Class 1

7. Description of Work Hanger RRC-SA-1 was modified as shown on the design drawings. The Code work was performed as follows:

1. Modified hanger and made required welds.
2. No new Code base material was required.
3. The completed welds were visually examined. Visual examination results acceptable.

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

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

WPPSS - Washington Public Power Supply System

Plan No. 2-0106

CERTIFICATE OF COMPLIANCE

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

Signed K Kovan QC Tech Mgr 2/21 ,19 84
(Owner or Owner's Designee) Title (Date)

K Kovan 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 A. M. Stoltz Commissions 7486 W
(Inspector) (State or Province, National Board)

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

Plan No. 2-0107

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
   3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
   P.O. Box 600, Richland, WA 99352 (Address)
4. Identification of System Reactor Recirculation (RRC)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-SB-1	WPPSS	B35-G001A-P1	N/A	N/A	N/A	1983	Modification	Yes, Class 1

7. Description of Work Hanger RRC-SB-1 was modified as shown on the design drawings. The Code work was performed as follows:
   1. Modified hanger and made required welds.
   2. No new Code base material was required.
   3. The completed welds were visually examined. Visual examination results acceptable.

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

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

WPPSS - Washington Public Power Supply System

Plan No. 2-0107

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan Plt Tech Mgr 2/21 .19 84
(Owner or Owner's Designee) Title (Date)

K Swift 2/21/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington . employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 .19 84

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

Date 2-21-84 L. M. Hitt (Inspector) Commissions 7486 W (State or ~~Province~~, National Board)

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

Plan No. 2-0108

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)
4. Identification of System PI(1)-4S-X-72f
5. (a) Applicable Construction Code ASME III 1974 Edition, W '75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W '80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Same as	JCI*	Same as	N/A	N/A	N/A	1983	Modification	Yes, Class 2
4 above		4 above						
	*Johnson Controls, Inc.							

7. Description of Work Valve PI-VX-253 was removed from line 1" PI(1)-4S-X72f and reinstalled to facilitate proper flow directions as follows:

1. Valve PI-VX-253 and a section of 1" pipe each side was removed.
2. The valve was reoriented in proper flow direction and a new pipe section added on each side.
3. The 4 new 1" socket welds received a PT examination. PT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure * psi Test Temp * °F Component Design Pressure 70 psi Temp. 150°F

9. Remarks NONG
(Applicable Manufacturer's Data Reports to be attached)

* Instrument line PI(1)-4S-X72f modified by this plan is an air service sample line which normally operates at atmospheric pressure. Therefore, no system leakage test pressure was performed.

Plan No. 2-0108

CERTIFICATE OF COMPLIANCE

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

Signed [signature] C.R. Wolfe Design Mgr. 1/3 .19 84
(Owner or Owner's Designee) Title (Date)

12/30/85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois, have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-5 .19 84

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

Date 1-5-84 James Grant (Inspector) Commissions WB265 (State ~~or Province~~, National Board)

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

Plan No. 2-0109

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

1. Owner Washington Public Power Supply System (Name) 3000 George Washington Way, Richland, WA 99352 (Address) Date 12/30/83 Sheet 1 of 1

2. Plant WNP-2 (Name) Hanford, Benton County, WA (Address) Unit N/A

3. Work Performed by Bechtel Power Corporation (Name) P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.

4. Identification of System PI(1)-4S-X-73e

5. (a) Applicable Construction Code ASME III 19 74 Edition, W'75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Same as	JCI*	Same as	N/A	N/A	N/A	1983	Modification	Yes, Class 2
4 above		4 above						
	*Johnson Control, Inc.							

7. Description of Work Valve PI-VX-259 was removed from line 1" PI(1)-4S-X-73e and reinstalled to facilitate proper flow direction as follows:

1. Valve PI-VS-259 and a section of 1" pipe each side was removed.
2. The valve was reoriented in proper flow direction and a new pipe section added on each side.
3. The 3 new 1" socket welds received a PT examination. PT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure * psi Test Temp * °F Component Design Pressure 70 psi Temp. 340°F

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

* Instrument line PI(1)-4S-73e, modified by this plan, is an air service sample line which normally operates at atmospheric pressure. Therefore, no system leakage test pressure was performed.

Plan No. 2-0109

CERTIFICATE OF COMPLIANCE

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

Signed [signature] 1/5/84 C P Noyes Engrg Mgr 1/3 .19 84
(Owner or Owner's Designee) Title (Date)

1/31/85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermens Mutual Casualty Co of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84

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

Date 1-1-84 [signature] Commissions 7468W
(Inspector) (State ~~or Province~~, National Board)

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

Plan No. 2-0110

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Address)

4. Identification of System PI(1)-4S-X-73e

5. (a) Applicable Construction Code ASME III 1974 Edition, W'75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Same as 4 above	JCI*	Same as 4 above	N/A	N/A	N/A	1983	Modification	Yes, Class 2
	*Johnson Controls, Inc.							

7. Description of Work Excess flow check valve PI-EFC-X73e was removed and reinstalled in line 1"-PI-(1)-4S-X73e to provide correct flow isolation as follows:

1. The valve and a section of 1" and ½" pipe on each side was removed.
2. The valve was rotated 180° and new sections of 1" and ½" pipe was added.
3. The 6 new socket welds were PT examined. PT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure * psi Test Temp * °F Component Design Pressure 70 psi Temp. 340°F

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

*Instrument line PI(1)-4S-X-73e modified by this plan is an air service sample line which normally operates at atmospheric pressure. Therefore, no system leakage test pressure was performed.

Plan No. 2-0110

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) CPM Engr Main 1 3 Title (Date) 12/30/83 .19 84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-5-84 James Brent (Inspector) Commissions WI6265 (State ~~or Province~~, National Board)

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

Plan No. 2-0111

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System: Containment Vessel, Penetration X-88

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, Class 2

7. Description of Work: Note: Installed plate and 1" pipe on penetration X-88. This work was performed under ASME Section XI Plan No. 2-003I. ASME Section XI Plan No. 2-0111 installed new valve PSR-V-141 in 1" pipe section installed under Plan No. 2-0031. Work was performed as follows:

1. Cut pipe to facilitate installation of new valve.
2. Installed new valve PSR-V-141 by welding.
3. PT examined the welds. PT examination acceptable.
4. Performed normal operating pressure leak test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 5.5 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks See attached NPV-1 Code Data Report for Valve PSR-V-141, SN 79074.
(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0111

CERTIFICATE OF COMPLIANCE

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

igned [illegible] C-E Nuclear Fuels Mgr 1/3 .19 84
(Owner or Owner's Designee) Title (Date)

1-6-84
1-30-83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-J .19 84

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

Date 1-5-84 [signature] (Inspector) Commissions 7486 a (State or ~~Province~~, National Board)

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

Plan No. 2-0111

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

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

BOOK # 0 H8 38

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

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

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

4. Pump or Valve Globe Valve. Nominal Inlet Size 1 (inch) Outlet Size 1 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	79089 thru 79112	N/A	106DCA1-004	1	N/A	1982
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class 1500 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 4W69	Colmonoy #4	Rex Precision	
(b) Forgings			
Body-Code 1N55	SA 182 F316	Pacific Forge	
2E98	SA 182 F316	Kawaguchi	
Bonnet-Code 1N15	SA 182 F316	Crucible	

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) ... (10) ...

FORM NPV-1 (Back)

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

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., Edition 1974, Addenda Winter '75 (Date), Code Case No. N/A 11/29/82

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

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

CERTIFICATION OF DESIGN

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

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

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

PE State Wash. Reg. No. 13579

Stress analysis certified by (1) David Wurangian

PE State CA Reg. No. 19547

(1) Signature not required. List name only.

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 Kemper Insurance Company of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 11/82 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.

Plan No. 2-0112

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

1. Owner Washington Public Power Supply System Date 2/7/84
   3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA 99352 (Address)
3. Work Performed by Bechtel Power Corporation C-250
   P.O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Instrument Lines PI(1)-4S-X82d and PI(1)-4S-X82f
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work: Modified instrument lines PI(1)-4S-X82d and PI(1)-4S-X82f to add test connections and valves. The modification was performed as follows:
   1. Removed section of the existing instrument piping.
   2. Installed new fittings, pipe, and valves by welding.
   3. PT examined the final welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Test Pressure ** psig Test Temp ** °F Component Design Pressure Atm psig Temp. 150°F
9. Remarks NPV-1 Code Data Reports for the following new valves are attached.
   (Applicable Manufacturer's Data Reports to be attached)

Valve Tag No.	Valve S/N
PSR-V-151	79101
PSR-V-142	79103
PSR-V-143	PB1051
PSR-V-144	PB1052

* PI(1)-4S-X82d and PI(1)-4S-X82f

** Instrument lines PI(1)-4S-X82d and PI(1)-4S-X82f modified by this plan normally operate at atmospheric pressure. Therefore, no system leakage test was performed.

JCI - Johnson Control, Inc.

Plan No. 2-0112

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title Dist Tech Mgr (Date) 2/3/84 .19 ____

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7 .19 84

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

Date 2-7-84 [signature] (Inspector) Commissions 7466 (State or Province, National Board)

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

Plan No. 2-0112

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 BOCK # C HB 38

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)
2. Manufactured for Johnson Controls, Inc. P O Box 429, Richland, Washington 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation Hanford #2 Jobsite, Richland, Washington
(Name and Address)
4. Pump or Valve Globe Valve. Nominal Inlet Size 1 (inch) Outlet Size 1 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	79089 thru 79112	N/A	106DCA1-004	1	N/A	1982
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class 1500 (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 4W69	Colmonoy #4	Rex Precision	
(b) Forgings			
Body-Code 1M35	SA 182 F316	Pacific Force	
2E95	SA 182 F316	Kawaguchi	
Bonnet-Code 1N15	SA 182 F316	Crucible	

(1) For manually operated valves only.

* Supplementary 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 8 on this data report is included on each sheet and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

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

9. Hydrostatic test 3400 psi. Disk Differential test pressure 2800 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., Edition 1974, Addenda Winter '75 (Date), Code Case No. N/A 11/26/82

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

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

CERTIFICATION OF DESIGN

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

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

Design specifications certified by (1) James P. Fagen, Jr.

PE State Wash. Reg. No. 13579

Stress analysis certified by (1) David Wuranetan

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 Underwriter's Natural Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 11/82 to 19 82, and state that to the best of my knowledge and belief, the N Certificate holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 11/82 19 82

Plan No. 2-0112

*COMPLETED DATA REPORT 5-17-83 0/65/11/83 AIV2

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

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

1 Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650
(Name and Address of N Certificate Holder)

2 Manufactured for WPPSS, 3000 George Washington Way, Richland, WA 99352-0968
(Name and Address of Purchaser or Owner)

3 Location of Installation WPN-2 Plant, Richland, WA 99352
(Name and Address)

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

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	5021P4511S4D2	PB1050	None	13753	2	None	1983
(2)		thru					
(3)		PB1052					
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5 Instrument Shut-off and Drain Valves (3 Pcs.)
(Brief description of service for which equipment was designed)

6 Design Conditions ___ psi ___ °F (Pressure) (Temperature) °F or Valve Pressure Class 2500 (1)

7 Cold Working Pressure 6000 psi at 100°F

8 Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Jessop Steel Co.	HT 30608

(1) For internally 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
320

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Disc	Stellite Alloy 6B	Cabot Corp.	HT 1810-4-1028
Bonnet	ASME SA479 TY 316	Al Tech Spec. Stls.	HT 08379
Union Nut	ASME SA479 TY 316	Joslyn Stainless	HT 80073

9. Hydrostatic test 9000 psi. Disk Differential test pressure 6000 psi.

*Addenda 6/30/76 CERTIFICATE OF COMPLIANCE DVI 5-16-83 ANI 5/17/83

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

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

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

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System

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

Design specifications certified by (1) Shafik H. Rifaey

PE State WA Reg No. 13626

Stress analysis certified by (1) not required

PE State ___ Reg No ___

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

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

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

Date 5-13 19 83

[signature] (Inspector) Commissions CA 1658 (Nat'l Bd., State, Prov. and No.)

Plan No. 2-0112 / 5-6-84 / 4-22-1983

Plan No. 2-0113

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Address)

4. Identification of System PI(1)-4S-X-72f

5. (a) Applicable Construction Code ASME III 1974 Edition, W'75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Same as	JCI*	Same as	N/A	N/A	N/A	1983	Modification	Yes, Class 2
4 above		4 above						
	*Johnson Controls, Inc.							

7. Description of Work Excess flow check valve PI-EFC-X-72f was removed and reinstalled in line 1"-PI-(1)-4S-X-72f to provide correct flow isolation as follows:

1. The valve and a section of 1" and ½" pipe on each side was removed.
2. The valve was rotated 180° and new sections of 1" and ½" pipe was added.
3. The 6 new socket welds were PT examined. PT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure * psi Test Temp * °F Component Design Pressure 70 psi Temp. 150°

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

*Instrument line PI(1)-4S-X-72f modified by this plan is an air service sample line which normally operates at atmospheric pressure. Therefore, no system leakage test pressure was performed.

Plan No. 2-0113

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title Mgr (Date) 1/3 .19 84

K Swigh 12/30/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-5 .19 84

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

Date 1-5-84 [signature] (Inspector) Commissions 7468W (State ~~or Province~~, National Board)

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

FDCover 4/10/84 4/10/84

FAC 1 CORRECTED DATA Plan No. 2-0014-6

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name)
P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, W80 Addenda, Code Cases N308 & N236 1 FAC

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-6.

PLAN NO. 2-0014-6
Installed weld pad on containment vessel wall at Az 230°-00', Elev 480'-0" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F FAC/156

9. Remarks None 1 FAC/155 1 FAC/155 1 FAC/155 1 FAC/156
(Applicable Manufacturer's Data Reports to be attached)

FAC/156 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

1 COX/156 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-6

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title [signature] (Date) 9/26 .19 83

9/26/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 83

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

Date 9/26/83 [signature] (Inspector) Commissions 7444 (State or ~~Province~~ National Board)

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

FJC Comm 4/14/94
4/18/94

FJC ⚠1 CORRECTED DATA

Plan No. 2-0014-7

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name)
P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236 ⚠1 FJC 4/18/94

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-7.

PLAN NO. 2-0014-7
Installed weld pad on containment vessel wall at Az 240°-0", Elev 478'-0" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT ⚠1 FJC 4/18/94
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None ⚠1 KJC 4/18/94 ⚠1 KJC 4/18/94 ⚠1 KJC 4/18/94 ⚠1 KJC 4/18/94
(Applicable Manufacturer's Data Reports to be attached)

KJC ⚠1 4/18/94 NOTE-
~~No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.~~

KJC ⚠1 4/18/94 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-7

CERTIFICATE OF COMPLIANCE

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

Signed [signature] WNP-2 Maintenance 4/26 .19 83
(Owner or Owner's Designee) Title (Date)

KS 4/14/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 85

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

Date 9/26/85 [signature] (Inspector) Commissions 7485 (State ~~XXXXXXX~~ National Board)

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

FAC Conv 4/10/84
FAC 4/10/84
Plan No. 2-0014-8

FAC 1 CORRECTED DATA

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

1. Owner Washington Public Power Supply System Date 9/19/83
3000 George Washington Way, Richland, WA (Name) (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name)

3. Work Performed by Bechtel Power Corporation (Name) (Address) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, W80 Addenda, Code Cases N308 & N236 1 FAC 4/10/84

6. Identification of Components Repaired or Replaced, and Replacement Components

	Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont.	Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-8.

PLAN NO. 2-0014-8.
Installed weld pad on containment vessel wall at Az 40°-00', Elev 478'-0" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None PCILRT 1 FAC 4/10/84
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None 1 FAC 4/10/84 1 FAC 4/10/84 1 FAC 4/10/84 1 FAC 4/10/84
(Applicable Manufacturer's Data Reports to be attached)

FAC 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

FAC 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-8

CERTIFICATE OF COMPLIANCE

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

Signed [illegible] (Owner or Owner's Designee) WNP-2 Mgr Engg Title 9/26 (Date) .19 83

9/26/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 7/26 .19 83

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

Date 9/26/83 [signature] (Inspector) Commissions 7486 WA (State ~~XXXXXXX~~ National Board)

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

FOC 4/11/87
FOC 4/11/87
Plan No. 2-0014-9

FOC 1 CORRECTED DATA

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

1. Owner Washington Public Power Supply System Date 9/19/83
   3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name)
   P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236 1 FOC 11/05
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes. MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall.. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-9.

PLAN NO. 2-0014-9

Installed weld pad on containment vessel wall at Az 89°-00', Elev 581'-10-1/2" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1
   Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psia Temp. 340°F FOC 11/05
9. Remarks None 1 FOC 11/05 1 FOC 11/05 1 FOC 11/05 1 FOC 11/05
   (Applicable Manufacturer's Data Reports to be attached)

FOC 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

FOC 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-9

CERTIFICATE OF COMPLIANCE

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

Signed B K Holmberg (Owner or Owner's Designee) WNP-2 Mgr Eng (Title) 9/26 (Date) ,19 83

K Swan 9/27/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 ,19 83

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

Date 9/26/83 (Inspector) Commissions 7115 (State ~~XXXXXXX~~ National Board)

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

FAC Corr 4/16/87 Text 4/28/87

FAC 1 CORRECTED DATA

Plan No. 2-001410

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name)
P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236 1 FAC 4/16/87

6. Identification of Components Repaired or Replaced, and Replacement Components

	Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont.	Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE

Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-10.

PLAN NO. 2-0014-10

Installed weld pad on containment vessel wall at Az 92°-00', Elev 578'-3" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 FAC 4/16/87

Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None 1 FAC 4/16/87 1 FAC 4/16/87 1 FAC 4/16/87 1 FAC 4/16/87
(Applicable Manufacturer's Data Reports to be attached)

FAC 4/16/87 1 NOTE-

No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

FAC 4/16/87 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-10

CERTIFICATE OF COMPLIANCE

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

Signed [illegible] (Owner or Owner's Designee) Title [illegible] (Date) 4/12 .19 83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington . employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/26/83 [illegible] (Inspector) Commissions 7486.W (State or ~~XXXXXXXX~~ National Board)

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

KAC 1 CORRECTED DATA

Plan No. 2-0014-11

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

1. Owner Washington Public Power Supply System Date 9/19/83
   3000 George Washington Way, Richland, WA (Name) (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
   P. O. Box 600, Richland, WA (Address)
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 1 KAC/1/86
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-11.

PLAN NO. 2-0014-11

Installed weld pad on containment vessel wall at Az 179°-00', Elev. 579'-2-3/4" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 KAC/1/86
   Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F KAC/1/86
9. Remarks None (Applicable Manufacturer's Data Reports to be attached) 1 KAC/1/86 1 KAC/1/86 1 KAC/1/86 1 KAC/1/86

KAC/1/86 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KAC/1/86 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-11

CERTIFICATE OF COMPLIANCE

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

Signed B A Hamburg WNP-2 Mgr Engr 9/26 .19 83
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/26/83 (Inspector) Commissions 7458 W (State ~~XXXXXXX~~ National Board)

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

KJC 4/6/84 4/10/84

KJC ⚠ CORRECTED DATA Plan No. 2-0014-12

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
   3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250
   P. O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236 ⚠ KJC 4/10/84
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-12.

PLAN NO. 2-0014-12
Installed weld pad on containment vessel wall at Az 180°-00', Elev 582'-1" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None PCILRT ⚠ KJC 4/10/84
   Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psia Temp. 340°F
   ⚠ KJC 4/6/84 ⚠ KJC 4/6/84 ⚠ KJC 4/6/84 ⚠ KJC 4/6/84
9. Remarks None
   (Applicable Manufacturer's Data Reports to be attached)

KJC 4/6/84 ⚠ NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KJC 4/6/84 ⚠ PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-12

CERTIFICATE OF COMPLIANCE

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

Signed [signature] WMP-2 Mgr Engr 9/26 .19 83
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/26/83 [signature] Commissions 7486 W
(Inspector) (State or ~~XXXXXXX~~ National Board)

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

KJC 4/6/87 4/10/87

KJC 1 CORRECTED DATA Plan No. 2-0014-13

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/93
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name)
P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 1 KJC 4/6/87
6. Identification of Components Repaired or Replaced, and Replacement Components

	Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont.	Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-13.

PLAN NO. 2-0014-13

Installed weld pad on containment vessel wall at Az 205°-36', Elev 580'-11" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 KJC 4/6/87
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psia Temp. 340°F
9. Remarks None 1 KJC 4/6/87 1 KJC 4/6/87 1 KJC 4/6/87 1 KJC 4/6/87
(Applicable Manufacturer's Data Reports to be attached)

KJC 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KJC 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-13

CERTIFICATE OF COMPLIANCE

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

Signed for B A Holmberg WNP 2 Mgr Engr 9/26 .19 83
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/26/83 [illegible] Commissions 7145 (State ~~XXXXXXX~~ National Board)
(Inspector)

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

FAC 4/10/84 4/10/84

FAC ⚠1 CORRECTED DATA Plan No. 2-0014-14

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name)
P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 ⚠1 FAC 1/15

6. Identification of Components Repaired or Replaced, and Replacement Components

	Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont.	Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-14.

PLAN NO. 2-0014-14
Installed weld pad on containment vessel wall at Az 222°-24', Elev 531'-10-3/8" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT ⚠1 FAC 1/15
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None ⚠1 FAC 1/15 ⚠1 FAC 1/15 ⚠1 FAC 1/15 ⚠1 FAC 1/15
(Applicable Manufacturer's Data Reports to be attached)

FAC 1/15 ⚠1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

FAC 1/15 ⚠1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-14

CERTIFICATE OF COMPLIANCE

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

Signed B.A. Holubar WNP2 Mgr Eng 9/26 ,19 83
(Owner or Owner's Designee) Title (Date)

V.S. Lyman 9/19/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 ,19 83

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

Date 9/26/83 M. W. Fritz (Inspector) Commissions 7486-A1 (State ~~XXXXXXX~~ National Board)

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

KDC 1 CORRECTED DATA

Plan No. 2-0014-15

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA (Address)
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 1 KDC 11/10/83
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-15.

PLAN NO. 2-0014-15

Installed weld pad on containment vessel wall at Az 225°-11', Elev 531'-10-3/8" for hanger installation as follows:

- MT examined the base material prior to welding. MT examination results acceptable.
- MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 KDC 11/10/83
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psia Temp. 340°F

9. Remarks None 1 KDC 11/10/83 1 KDC 11/10/83 1 KDC 11/10/83 1 CDC 11/10/83
(Applicable Manufacturer's Data Reports to be attached)

KDC 11/10/83 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KDC 11/10/83 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-15

CERTIFICATE OF COMPLIANCE

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

Signed B Hildebrand OWNR MGR ENG 4/26 .19 83
(Owner or Owner's Designee) Title (Date)

K Smith 9/14/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 .19 55

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

Date 9/26/55 J. W. Stitt (Inspector) Commissions 7486 (State ~~XXXXXXX~~ National Board)

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

KAC ⚠ CORRECTED DATA

Plan No. 2-0014-16.

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

1. Owner Washington Public Power Supply System (Name) Date 7/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name)
P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236 ⚠1 KAC 11/10

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-16.

PLAN NO. 2-0014-16

Installed weld pad on containment vessel wall at Az 195°-01', Elev 578'-0" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT ⚠1 KAC 11/10
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None ⚠1 KAC 11/10 ⚠1 KAC 11/10 ⚠1 KAC 11/10 ⚠1 KAC 11/10
(Applicable Manufacturer's Data Reports to be attached)

KAC ⚠1 11/10 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KAC ⚠ 11/10 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-16

CERTIFICATE OF COMPLIANCE

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

Signed BA Hehnberger WNP-2 Mgr Engr 9/26 ,1983
(Owner or Owner's Designee) Title (Date)

K Sliger 9/26/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington , employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9-26 ,19 83

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

Date 9/26/83 (Inspector) Commissions 7486(4)
(State ~~XXXXXXXX~~ National Board)

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

KAC 4/1-15-84 4/16/84

KAC 1 CORRECTED DATA Plan No. 2-0014-17

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P. O. Box 600, Richland, WA (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 1 KAC 4/10

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-17.

PLAN NO. 2-0014-17

Installed weld pad on containment vessel wall at Az 189°-38', Elev 578'-0" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 KAC 4/10
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None 1 KAC 4/10 1 KAC 4/10 1 KAC 4/10 1 KAC 4/10
(Applicable Manufacturer's Data Reports to be attached)

KAC 4/10 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KAC 4/10 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-17

CERTIFICATE OF COMPLIANCE

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

Signed [signature] WPPSS-2 M/A/E Mgr (Owner or Owner's Designee) Title 9/26 (Date) ,19 83

9/27/1983

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 ,19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/26/83 [signature] (Inspector) Commissions 7418641 (State ~~XXXXXXXX~~ National Board)

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

KAC 1 CORRECTED DATA

KAC comm 4/10/84
Plan No. 2-0014-18

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name)
P. O. Box 600, Richland, WA (Address) C-250 Repair Organization P.O No., Job No., etc.
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308 & N236 1 KAC 1/10
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM	12764	790	N/A	N/A	1976	Modified	Yes, MC

7. Description of Work NOTE
Generic ASME Section XI Plan No. 2-0014 covers the installation of weld pads on containment vessel wall. The installation of individual pads was performed under unique ASME Section XI Plan Number, i.e. Plan No. 2-0014-2, etc. This data report covers the installation of the weld pad under Plan No. 2-0014-18.

PLAN NO. 2-0014-18.
Installed weld pad on containment vessel wall at Az 208'-45", Elev 578-0" for hanger installation as follows:

- o MT examined the base material prior to welding. MT examination results acceptable.
- o MT examined the final weld. MT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F KAC 1/10

9. Remarks None 1 KAC 1/10 1 KAC 1/10 1 KAC 1/10 1 KAC 1/10
(Applicable Manufacturer's Data Reports to be attached)

KAC 1/10 1 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KAC 1/10 1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0014-18

CERTIFICATE OF COMPLIANCE

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

Signed [signature] [illegible] Engr 9/26 ,19 83
(Owner or Owner's Designee) Title (Date)

K Sivels 9/29/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~XXXXXXX~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 9/26 ,19 83 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/26/83 [signature] Commissions 7480.44
(Inspector) (State or ~~XXXXXXXX~~ National Board)

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

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

1. Owner Washington Public Power Supply System (Name) Date 9/19/83
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA (Address)

4. Identification of System Reactor Feed Water (RFW)

5. (a) Applicable Construction Code ASME III 19 71 Edition, S73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Comoonents Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identi-fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RFW-V-65A	Velan	0003	N/A	N/A	N/A	1977	Repaired	Yes, Class 1

7. Description of Work Two (2) areas on the valve body were blended down to less than the required wall. These areas were repaired as follows:

1) Weld built-up the excavated areas.
2) Blended the welded areas smoothly into the adjacent base metal.
3) UT examined the welded areas for wall thickness check.
4) PT and RT examined the welded areas. PT and RT examination results acceptable.
5) Performed hydrostatic tests. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
*Test Pressure 1392 psig Test Temp 89 °F Component Design Pressure 1955 psig Temp. 450°F

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

*Test pressure of 1392 psig is 1.1 x system normal operating pressure.

Plan No. 2-0024

CERTIFICATE OF COMPLIANCE

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

Signed ~~[illegible]~~ (Owner or Owner's Designee) Title Date 9/26 ,19 83

K Smith 9/14/83

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province~~ of Washington , employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 9/26 ,19 83

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

Date 9/26/83 [illegible] (Inspector) Commissions 7418 (State or ~~Province~~, National Board)

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

Plan No. 2-0114

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System PI(1)-4S-X-83a

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
**	JCI*	**	N/A	N/A	N/A	1983	Modified	Yes, Class 2
PSR-V-145	***	79106	N/A	N/A	N/A	1982	Added	Yes, Class 1
PSR-V-146	****	PB1040	N/A	N/A	N/A	1983	Added	Yes, Class 2
PSR-V-147	****	PB1039	N/A	N/A	N/A	1983	Added	Yes, Class 2
							V. Smith 12/30/83	

7. Description of Work Rerouted stamped instrument line PI(1)-4S-X-83a and added valves PSR-V-145, PSR-V-146, and PSR-V-147 to system.

1. Removed portion of the existing instrument piping.
2. Installed rerouted instrument piping and valves as shown on the design drawings.
3. Made required field welds.
4. PT examined socket field welds. PT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None(see note 1)
Test Pressure N/A psi Test Temp N/A °F Component Design Pressure N/A Temp. N/A

9. Remarks See attached NPV-1 code data reports for valves listed under 6. above.
(Applicable Manufacturer's Data Reports to be attached)

Note 1: Line is air service line which operates at atmospheric pressure, therefore system leakage test not required.

* Johnson Controls, Inc. *** Borg Warner
** PI(1)-4S-X-83a **** Dragon Valves, Inc.

Plan No. 2-0114

CERTIFICATE OF COMPLIANCE

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

gned [illegible] C.L. Hoyer Engr Mgr 1/3 ,19 84
(Owner or Owner's Designee) Title (Date)
Sent 1/30/85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84

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

Date 1-5-84 [signature] (Inspector) Commissions 7468W (State or ~~Province~~, National Board)

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

Plaw No. 2-0114

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

As Required by the Provisions of the ASME Code, Section III, Div. 1 BOOK # 0 H8 36

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)
2. Manufactured for Johnson Controls, Inc. P.O. Box 429, Richland, Washington 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation Hanford #2 Jobsite, Richland, Washington
(Name and Address)
4. Pump or Valve Globe Valve, . Nominal Inlet Size 1 (inch) Outlet Size 1 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	79089 thru 79112	N/A	106DCA1-004	1	N/A	1982
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class 1500 (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 4W69	Colmonoy #4	Rex Precision	
(b) Forgings			
Body-Code 1MR5	SA 182 F316	Pacific Forge	
2E98	SA 182 F316	Kawaguchi	
Bonnet-Code 1MR5	SA 182 F316	Crucible	

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this data report is included on each sheet and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

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

9. Hydrostatic test 5400 psi. Disk Differential test pressure 3500 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., Edition 1974, Addenda Winter '75 (Date), Code Case No. N/A 11/26/82

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

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

CERTIFICATION OF DESIGN

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

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

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

PE State Wash. Reg. No. 13579

Stress analysis certified by (1) David Wuranctan

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 [illegible] of [illegible] have inspected the pump, or valve, described in this Data Report on [illegible] 19[illegible], 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.

Plant No. 2-0114

*CORRECTED DATA REPORT NCR 5-17-83 CAS/17/83 ANI

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

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

1 Manufactured by Dragon Valves, Inc., 13457 Excelsior Dr., Norwalk, CA 90650
(Name and Address of N Certificate Holder)

2 Manufactured for UPPSS, 3000 George Washington Way, Richland, WA 99352-0968
(Name and Address of Purchaser or Owner)

3. Location of Installation WPN-2 Plant, Richland, WA 99352
(Name and Address)

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

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	S02FN0511SVN2	PB1038	None	13753	2	None	1983
(2)		thru					
(3)		PB1046					
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Instrument Shut-off and Drain Valves (9 Pcs.)
(Brief description of service for which equipment was designed)

6. Design Conditions ____ (Pressure) psi ____ (Temperature) °F or Valve Pressure Class 2500 (1)

7. Cold Working Pressure 6000 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Jessop Steel Co.	HT 30608

(1) For manually operated valves only.

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

BECHTEL 320

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts			
Disc	Stellite Alloy 6B	Cabot Corp.	HT 1810-3-1071
Bonnet	ASME SA479 TY 316	Al Tech Spec. Stls.	HT 08329
Union Nut	ASME SA479 TY 316	Joslyn Stainless	HT 71226

9. Hydrostatic test 9000 psi. Disk Differential test pressure 6000 psi.

*Addenda 6/30/76 CERTIFICATE OF COMPLIANCE DVI 5/6-83 ANI 5/17/83

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

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

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

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System

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

Design specifications certified by (1) Shafik H. Rifaey

PE State WA Reg. No. 17626

Stress analysis certified by (1) not required

PE State ____ Reg. No. ____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

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

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

Date 5/12 19 83.

[signature] (Inspector) Commissions CA 658 (Nat'l Bd., State, Prov. and No.)

MPR 14053

Plan No. 2-0115

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-4S-X84f

5.(a) Applicable Construction Code ASME III 1974 Edition, W75 Addenda, Code Cases N/A.

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2
PSR-V-148	BW	79105	N/A	N/A	N/A	1982	Addition	Yes, Class 1
PSR-V-149	Dragon	PB1044	N/A	N/A	N/A	1983	Addition	Yes, Class 2
PSR-V-150	Dragon	PB1043	N/A	N/A	N/A	1983	Addition	Yes, Class 2

7. Description of Work Rerouted stamped instrument line PI(1)-4S-X84f and added valves PSR-V-148, PSR-V-149, and PSR-V-150 to the system.

1. Removed portion of the existing instrument piping.
2. Installed rerouted instrument piping and valves as shown on the design drawings.
3. Made required field welds.
4. PT examined socket field welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None (See Note 1)
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure 45 psi Temp. 340°F

9. Remarks See attached NPV-1 Code Data Reports for the following valves:
(Applicable Manufacturer's Data Reports to be attached)

Valve Tag No.	Valve S/N
PSR-V-148	79105
PSR-V-149	P1044
PSR-V-150	P1043

Note 1 - Instrument line is an air service sample line which operates at atmospheric pressure, therefore, system leakage test not required or performed.

JCI - Johnson Control, Inc.
* PI(1)-4S-X84f
BW- Borg Warner
Dragon - Dragon Valves, Inc.

Plan No. 2-0115

CERTIFICATE OF COMPLIANCE

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

Signed K D Conn Plt Tal Mgr 2/24, 19 84
(Owner or Owner's Designee) Title (Date)

K Stupki 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 (Inspector) Commissions 7486 W (State or ~~Province~~, National Board)

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

Plan No. 2-0115

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 BOCX # 0 H8 38

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

2. Manufactured for Johnson Controls, Inc. P O Box 428, Richland, Washington 99352
(Name and Address of Purchaser or Owner)

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

4. Pump or Valve Globe Valve, . Nominal Inlet Size 1 (inch) Outlet Size 1 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	1500#	79089 thru 79112	N/A	106DCA1-004	1	N/A	1982
(2)							
(3)*							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class 1500 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code 4W69	Colmonoy #4	Rex Precision	
(b) Forgings			
Body-Code 1M85	SA 182 F316	Pacific Forge	
2E98	SA 182 F316	Kawaguchi	
Bonnet-Code 1N15	SA 182 F316	Crucible	

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this data report is included on each sheet and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back)

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

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda Winter '75 (Date), Code Case No. N/A 11/26/82

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

Our ASME Certificate of Authorization No. N-1254 to use the N (N) symbol expires 10/27/21 (Date).

CERTIFICATION OF DESIGN

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

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

Design specifications certified by (1) James P. Fagen, Jr.

PE State Wash. Reg. No. 13579

Stress analysis certified by (1) David Wurangian

PE State CA Reg. No. 19547

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Hartford Steam Boiler Inspection & Insurance Co. of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 11/30 19 82, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 11/30 19 82.

Plan No. 2-0115

*CORRECTED DATA REPORT NCB 5-17-83 CA5/17 83 ANI

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

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

1 Manufactured by Dragon Valves, Inc., 13652 Excelsior Dr., Norwalk, CA 90650
(Name and Address of N Certificate Holder)

2 Manufactured for WPPSS, 3000 George Washington Way, Richland, WA 99352-0968
(Name and Address of Purchaser or Owner)

3 Location of Installation WPN-2 Plant, Richland, WA 99352
(Name and Address)

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

	(a) Model No., Series No or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No	(d) Drawing No	(e) Class	* (f) Nat'l Bd No	(g) Year Built
(1)	5021E0511SVM2	PA1038	None	13753	2	None	1983
(2)		thru					
(3)		PA1046					
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5 Instrument Shut-off and Drain Valves (9 Pcs.)
(Brief description of service for which equipment was designed)

6 Design Conditions ____ (Pressure) ____ psi ____ (Temperature) ____ °F or Valve Pressure Class 2500 (1)

7 Cold Working Pressure 6000 psi at 100°F

8 Pressure Retaining Pieces

Mark No	Material Spec No	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
Body	ASME SA182 Gr. F316	Jessop Steel Co.	ht 130...K

(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 None			
(d) Other Parts			
Disc	Stellite Alloy 6B	Cabot Corp.	HT 1810-3-1071
Bonnet	ASME SA479 TY 316	Al Tech Spec. Stls.	HT 08329
Union Nut	ASME SA479 TY 316	Joslyn Stainless	HT 71226

9 Hydrostatic test 9000 psi, Disc Differential test pressure 6000 psi.

*Addenda 6/30/76

CERTIFICATE OF COMPLIANCE DVI CA5 5-16-83 ANI CA5 5/17/83

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

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

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

CERTIFICATION OF DESIGN

Design information on file at Washington Public Power Supply System

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

Design specifications certified by (1) Shafik H. Kifaey

PE State VA Reg No 17626

Stress analysis certified by (1) not required

PE State ____ Reg No ____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

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

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

Date 5-12 19 83 Signed [signature] Commissions CA 458 (Nat'l Bd., State, Prov. and No.)

BECHTEL 320

Plan No. 2-0115 16 of 35 MRR 14 of 23

Plan No. 2-0116

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Reactor Recirculation (RRC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC-SB-9	WPPSS	B35-G001A-P1	N/A	N/A	N/A	1983	Modification	Yes, Class 1

7. Description of Work Hanger RRC-SB-9 was modified as shown on the design drawings. The modification work was performed as follows:

1. Modified hanger and made required welds.
2. The completed welds were visually examined. Visual examination results acceptable.

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

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

WPPSS - Washington Public Power Supply System

Plan No. 2-0116

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan QC Technician 2/21 19 84
(Owner or Owner's Designee) Title (Date)

K Cowan 2/21/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 (Inspector) Commissions 7486W (State or Province, National Board)

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

Plan No. 2-0117

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
   3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
   P.O. Box 600, Richland, WA 99352 (Address)
4. Identification of System Instrument Line PI(1)-4S-X44Ab
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 1

7. Description of Work Hanger B-220-HGR-4 baseplate in stamped system PI(1)-4S-X44Ab was modified. Work was performed as follows:
   1. Stiffener plates were added to the baseplates as shown on the design drawings.
   2. Made required field welds.
   3. The completed welds were visually examined and found acceptable.

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

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

JCI - Johnson Controls, Inc.
* - PI(1)-4S-X44Ab

Plan No. 2-0117

CERTIFICATE OF COMPLIANCE

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

Signed K Kowan (Owner or Owner's Designee) Plt Tech Mgr (Title) 2/21 (Date) ,19 84

K Kowan 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84

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

Date 2-21-84 (Inspector) Commissions 7486a (State ~~or Province~~, National Board)

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

Plan No. 2-0118

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

1. Owner Washington PUblic Power Supply System Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Name, Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. C-250
P.O. Box 600, Richland, WA 99352 (Name, Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 1971 Edition, S '72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W '80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Vessel	PDM*	12764	790	N/A	N/A	1976	Repaired	Yes; Class MC
	*Pittsburgh-Des Moines Steel Company							

7. Description of Work Repair of a 5/32" deep, 3/8" wide and 2 1/4" long gouge in the containment shell at elevation 511' and azimuth 262° made when repairing an adjacent support pad. Repaired as follows:

1. Excavation MT examined.
2. Excavation welded with E8018-C3 electrodes.
3. Completed repair received a MT examination, a MT examination after 48 hours, and a volumetric UT examination. The MT and UT examinations acceptable.
4. Performed pressure test to reconfirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psi Test Temp Amb. °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0118

CERTIFICATE OF COMPLIANCE

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

Signed ~~[illegible]~~ C.P. Noyes Engin Mgr. 1/3 ,19 84
(Owner or Owner's Designee) Title (Date)

1/30/85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2/17 ,19 84

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

Date 2/17 [signature] (Inspector) Commissions 7468W (State ~~or Province~~, National Board)

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

Plan No. 2-0119

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

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-ST-(IR-67)-9

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Rerouted a portion of stamped instrument line PI(1)-ST-(IR-67)-9 and fabricated and installed hanger B-220-HGR-116-19. The modification work was performed as follows:

1. Removed a section of the existing instrument piping.
2. Installed rerouted instrument piping as shown on the design drawings.
3. Made required field welds. PT examined the welds. PT examination results acceptable.
4. Fabricated and installed hanger B-220-HGR-116-19 as shown on the design drawings. The completed hanger welds were visually examined. Visual examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 150 psig Test Temp Amb. °F Component Design Pressure 200 psi Temp. 200°F

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

* PI(1)-ST-(IR-67)-9
JCI - Johnson Control, Inc.

Plan No. 2-0119

CERTIFICATE OF COMPLIANCE

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

Signed K. Gowan Pitt Tech Mgr 7/3/84 .19 ____
(Owner or Owner's Designee) Title (Date)

K. Gowan 2/7/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7 .19 84

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

Date 2-7-84 H. M. Fiedler (Inspector) Commissions 7486W (State or Province, National Board)

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

KAC ⚠1 CORRECTED DATA

KAC Comm 4/12/84
Plan No. 2-0120
MCO 4/12/84

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P. O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308 & N236 ⚠1
KAC 3/29

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM*	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work Undersize fillet welds caused by surface blending were repaired to acceptable size for the support plates to containment vessel at elevations/azimuths 505'-20°, 509'-25°, and 505'-300°.

1. The weld area was MT examined.
2. Welded to correct fillet size.
3. The completed weld received a MT examination and a MT examination after 48 hours. MT examination acceptable.

KAC 3/29 ⚠1

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None PCILRT ⚠1
Test Pressure N/A psig Test Temp N/A °F Component Design Pressure N/A Temp. N/A

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)
⚠1 KAC 4/5/84 35.2 Amb ⚠1 KAC 4/5/84 ⚠1 45 psig KAC 4/5/84 340°F ⚠1 KAC 4/5/84

KAC ⚠1 4/5/84 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

* Pittsburgh-Des Moines Steel Company
KAC ⚠1 4/5/84 PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0120

CERTIFICATE OF COMPLIANCE

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

Signed [signature] C.P. Noyes Engr Mgr. 1/3 .19 84
(Owner or Owner's Designee) Title (Date)

1/31/85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the Repair (Repair(s) or Replacement(s)) described in this Report on 1-5 .19 84

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

Date 1-5-84 [signature] (Inspector) Commissions 7468W (State or ~~Province~~, National Board)

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

KAC 1 CORRECTED DATA

KAConaway 4/10/84

Plan No. 2-0121

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 12/30/83

3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A

Hanford, Benton County, WA (Name) (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.

P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S '72 Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W '80 Addenda, Code Cases N 308 & N236 1 KAC 1/26

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Vessel	PDM*	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC
	*Pittsburgh-Des Moines Steel Company							

7. Description of Work Undersize fillets welds caused by surface blending were repaired to acceptable size at elevation 552' and 23° azimuth for penetration X-3 stiffeners to containment vessel.

1. The weld area was MT examined.
2. Welded to correct fillet size.
3. The completed weld received a MT examination and a MT examination after 48 hours. MT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None- PCILRT 1

Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psia Temp. 340°F KAC/1/26

9. Remarks None (Applicable Manufacturer's Data Reports to be attached) 1 KAC/1/26 1 KAC/1/26 1 KAC/1/26 1 KAC/1/26

KAC 1/26 NOTE-

No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KAC 1 1/26 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0121

CERTIFICATE OF COMPLIANCE

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

Signed [illegible] C.L. Nagel Engr. Mgr 1/3 ,19 84
(Owner or Owner's Designee) Title (Date)

1/30/85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84

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

Date 1-5-84 [signature] (Inspector) Commissions 7468W (State ~~or Province~~, National Board)

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

K.K. Cowan 4/01/87
Plan No. 2-0122
Stone 4/13/87

K.K. 1 CORRECTED DATA

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/85
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, Washington (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Containment Vessel K.K. 10 1

5. (a) Applicable Construction Code ASME III 19 71 Edition, S '72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W'80 Addenda, Code Cases N 308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Vessel	PDM*	12764	790	N/A	N/A	1976	repaired	Yes, Class MC

7. Description of Work Undersize fillet welds caused by surface blending were repaired to acceptable size at elevation 551' and 23° azimuth and elevation 549' and 96° azimuth for support pads to containment vessel.

1. The weld area was MT examined.
2. Welded to correct fillet size.
3. The completed weld received a MT examination and a MT examination after 48 hours. MT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT K.K. 1 4/6/87
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None K.K. 1 4/6/87 K.K. 1 4/6/87 K.K. 1 4/6/87 K.K. 1 4/6/87
(Applicable Manufacturer's Data Reports to be attached)

K.K. 1 4/6/87 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

*Pittsburgh-Des Moines Steel Company
K.K. 1 4/6/87 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0122

CERTIFICATE OF COMPLIANCE

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

Signed [signature] C. P. Noyes Engr Mgr 1/3, 19 84
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 1-5, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-5-84 [signature] (Inspector) Commissions 7468W (State ~~or Province~~, National Board)

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

K.K. Cowan 4/10/84
Plan No. 2-0123

KAC 1 CORRECTED DATA

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel KAC/1/15

5. (a) Applicable Construction Code ASME III 19 71 Edition, S. '72. Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W. '80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Vessel	PDM*	12764	790	N/A	N/A	1976	Repaired	Yes, class MC

7. Description of Work Undersize fillet welds caused by surface blending were repaired to acceptable size at elevaction 544' and 170° azimuth and elevation 541' and 210°-215° azimuth for the support plates to containment vessel.

1. The weld area was MT examined.
2. Welded to correct fillet size.
3. The completed weld received a MT examination and a MT examination after 48 hours. MT examination acceptable.

KAC/1/15

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1
Test Pressure 35.2 psig. Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None 1 KAC/1/15 1 KAC/1/15 1 KAC/1/15 1 KAC/1/15
(Applicable Manufacturer's Data Reports to be attached)

KAC/1/15 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KAC/1/15 1 PCILRT - Primary Containment Integrated Leak Rate Test.
* Pittsburg-Des Moines Steel Company

Plan No..2-0123

CERTIFICATE OF COMPLIANCE

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

Signed [signature] C.P. Wells Ellsin Mgr 1/3 .19 84
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the Repair described in this Report on 1-5 ,19 84
(Repair(s) or Replacement(s))

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

Date 1-5-84 [signature] Commissions 7468W
(Inspector) (State ~~or Province~~, National Board)

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

KAC 1 CORRECTED DATA

Plan No. 2-0124

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
   3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
   P.O. Box 600, Richland, WA 99352 (Address)
4. Identification of System Containment Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308 & N236
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM*	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work Undersize fillet welds caused by surface blending were repaired to acceptable size at elevation 576' and at 53° and 160° Azimuth for the support vessel.
   1. The weld area was MT examined.
   2. Welded to correct fillet size.
   3. The completed weld received a MT examination and a MT examination after 48 hours. MT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None PCILRT 1
   Test Pressure N/A 35.2 1 psig Test Temp N/A Amb 1 °F Component Design Pressure N/A 45 psig 1 Temp. N/A 340°F 1
9. Remarks None
   (Applicable Manufacturer's Data Reports to be attached)

NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

* Pittsburgh-Des Moines Steel Company

1 PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0124

CERTIFICATE OF COMPLIANCE

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

Signed [illegible] C.D. Noyes Engin Mgr 1/5 ,19 84
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repaire (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84

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

Date 1-5-84 [signature] (Inspector) Commissions 7456U (State ~~or Province~~, National Board)

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

KK 1 CORRECTED DATA

KD Coman 4/16/84

Plan No. 2-0125

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Containment Vessel KK 1

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Vessel	PDM*	12764	790	N/A	N/A	1976	Repaired	Yes, Class MC

7. Description of Work Undersize fillet welds caused by surface blending were repaired to acceptable size for the containment vessel vertical tee stiffeners at elevations/azimuths 507'-169°, 507'-194°, 510'-229°, 510'-284°, 506'-294°, and 502'-339°.

1. The weld area was MT examined.
2. Welded to correct fillet size.
3. The completed weld received an MT examination and an MT examination after 48 hours. MT examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ~~None~~ PCILRT 1 KK 10

Test Pressure N/A psig Test Temp N/A °F Component Design Pressure N/A Temp. N/A

35.2 1 KK 1/26 Amb 1 KK 1/25 45 psig 1 340°F 1 KK 1/25 KK 1/25

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

KK 1 1/26 NOTE-
No inspections performed. Acceptance based on successful completion of primary containment vessel 24-hour pressure decay test.

KK 1 10 *Pittsburgh-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test.

Plan No. 2-0125

CERTIFICATE OF COMPLIANCE

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

Signed [signature] C.R. Noyes Engr Mgr 1/3 ,19 84
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84

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

Date 1-5-85 [signature] Commissions 7468W
(Inspector) (State or ~~Province~~, National Board)

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

Plan No. 2-0126

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

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name)
3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Residual Heat Removal (RHR)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(3)-2A	WPPSS	RHR(3)-2A-P1	N/A	N/A	N/A	1983	Repaired	Yes, Class 2

7. Description of Work Olet welds on RHR-875-1.5 were repaired to conform with the fitting manufacturer's recommendation for weld contour. The work was performed as follows:

1. The welds were repaired by welding to correct size.
2. The completed welds were PT examined. PT examination results acceptable.

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

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

WPPSS - Washington Public Power Supply System

Plan No. 2-0126

CERTIFICATE OF COMPLIANCE

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

Signed K D Conway Plt Tech Mgr 2/21 ,19 84
(Owner or Owner's Designee) Title (Date)

K Smith 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84

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

Date 2-21-84 (Inspector) Commissions 7486W (State or Province, National Board)

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

Plan No. 2-0127

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

1. Owner Washington Public Power Supply System Date 2/21/84
   3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation C-250
   P.O. Box 600, Richland, WA 99352 (Name) Repair Organization P.O No., Job No., etc.
   (Address)
4. Identification of System Reactor Feedwater (RFW)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RFW(1)-4A	WPPSS	RFW(1)-4A-P2	N/A	N/A	N/A	1983	Repaired	Yes, Class 1

7. Description of Work Olet welds were repaired with the fitting manufacturer's recommendation for weld contour. The work was performed as follows:

7a. RFW-418-4 (FW-C) - The weld was repaired by welding to correct size, followed by PT examination. PT examination results acceptable.

7b. RFW-418-3 (FW-E & FW-15R1) - The welds were repaired by welding to correct size, followed by PT examination. PT examination results acceptable. The thickness of weld FW-E was verified by UT. The PT and UT preservice inspections were re-established for FW-E (ISI Weld No. 24RFW(1)A-1/5RFW(11)-4) PT and UT examination results acceptable.

7c. RFW-438-1.2 (FW-11R1) - Indications in the weld were removed prior to repair. Excavation was PT examined. PT examination results acceptable. The weld was repaired by welding to correct size, followed by PT examination and UT for thickness. PT and UT thickness examination results acceptable. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒* Other ☒ None-For item 7a & 7b
   Test Pressure 1035* psi g Test Temp Amb. °F Component Design Pressure 1300 psi Temp. 575°F

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

WPPSS - Washington Public Power Supply System
* For Item 7c RWF-438-1.2, FW11R1

Plan No. 2-0127

CERTIFICATE OF COMPLIANCE

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

Signed K L Cowan (Owner or Owner's Designee) Dept Tech Mgr (Title) 2/24 (Date) ,19 84

K Cowan 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84

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

Date 2-21-84 H. M. Hadley (Inspector) Commissions 7486 W (State or Province, National Board)

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

Plan No. 2-0128

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

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System HPCS

5. (a) Applicable Construction Code ASME III 19 71 Edition, W'73 Addenda, Code Cases See N-5
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W.'80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

	Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PCS	(1)-4CL1	BPC*	HPCS(1)-4CL1	N/A	N/A	N/A	1982	Repaired	Yes, Class 1
PCS	(1)-4CL2	BPC*	HPCS(1)-4CL2-P	N/A	N/A	N/A	1982	Repaired	Yes, Class 2

7. Description of Work The O-Let welds described below were repaired to comply with the weld size recommended by the fitting manufacturer.

Component HPCS (1)-4CL1 weld D(FW-D) shown on drawing HPCS-630-29.30 had additional weld metal added. UT'ed to verify wall thickness. The final weld was PT examined with acceptable results. The preservice baseline reperformed.

Component HPCS (1)-4CL2 weld FW-7 shown on drawing HPCS-633-1.2 had additional weld metal added. The final weld was PT examined with acceptable results.

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

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

* Bechtel Power Corporation-(Installer)

Plan No. 2-0128

CERTIFICATE OF COMPLIANCE

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

Signed [signature] C.D. Noyes Engr Mgr 1/3 ,19 84
(Owner or Owner's Designee) Title (Date)

KS 1/30/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84

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

Date 1-5-84 [signature] Commissions 7468W
(Inspector) (State ~~or Province~~, National Board)

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

Plan No. 2-0129

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

1. Owner Washington Public Power Supply System Date 2/21/84
(Name)
3000 George Washington Way, Richland, WA 99352 Sheet 1 of 1
(Address)
2. Plant WNP-2 Unit N/A
(Name)
Hanford, Benton County, WA
(Address)
3. Work Performed by Bechtel Power Corporation C-250
(Name)
P.O. Box 600, Richland, WA 99352 Repair Organization P.O No., Job No., etc.
(Address)
4. Identification of System Instrument Lines PI(1)-ST-IR-63-1A and PI(1)-ST-IR-66-1 and 13
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases N/A.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
100-1	JCI	175	N/A	N/A	N/A	1983	*	Yes, Class 2
301-1	JCI	N/A	N/A	N/A	N/A	1983	*	Yes, Class 2

7. Description of Work Hangers S/N SN-1-100-1-175 and SN-301-1 were removed and reinstalled to facilitate adjacent concrete repair. No welding or new material used. Anchor bolting was re-torqued after hanger reinstallation.

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

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

* Removal and Reinstallation
JCI - Johnson Control, Inc.

Plan No. 2-0129

CERTIFICATE OF COMPLIANCE

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

Signed K Kovar (Owner or Owner's Designee) Plt Tech Mgr (Title) 2/21 (Date) ,19 84

K Kovar 2/21/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the * (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84

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

Date 2-21-84 M. M. Parker (Inspector) Commissions 7486 W (State ~~or Province~~, National Board)

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

* Removal and Reinstallation

Plan No. 2-0130

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

1. Owner Washington Public Power Supply System (Name) Date 3/13/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)
4. Identification of System Reactor Recirculation (RRC)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W.73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W. '80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
B35-G001A	WPPSS	B35-G001A-P1	N/A	N/A	N/A	1983	Modification	YES, Class 1

7. Description of Work Modified support RRC-SA-2 to strengthen support attachments and replace snubber. The modification work was performed as follows:
1. Removed required welds and relocated support as shown on the design drawings.
2. Made required welds.
3. Completed welds were visually examined. Visual examination results acceptable.
4. Replaced snubber with new PSA-35, serial number 10733.

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

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

Plan No. 2-0130

CERTIFICATE OF COMPLIANCE

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

Signed K D Lowe (Owner or Owner's Designee) Title QC Tech Mgr (Date) 3/12 .19 84

K Lowe 3/12/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumberman's Mutual Casualty Co of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 3-13 .19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-13-84 James Brunt (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0180

FOR CONTROL ROOM CHILLER UNITS
CCH-CR-1A AND CCH-CR-1B
ALTERATION

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

1. Owner Washington Public Power Supply System (Name) Date 8/16/84
3000 George Washington Way, Richland, WA (Address) Sheet 1 of 3

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA (Address)

4. Identification of System Control Room Chiller Units

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases Tubes 1634-2
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CCH-CR-1A	York	2510	55256	N/A	*	1980	Altered **	Yes, Class 3
CCH-CR-1B	York	2511	55257	N/A	*	1980	Altered **	Yes, Class 3

7. Description of Work See attached supplementary sheets 2 and 3 of 3.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Test Pressure 463.5 psig Test Temp 75 °F Component Design Pressure 309 psig Temp. 150°F*

9. Remarks Attached N-1 Code Data Reports for Control Room Chiller Units CCH-CR-1A, SN 2510 and CCH-CR-1B, S/N 2511.
(Applicable Manufacturer's Data Reports to be attached)

*Originally tagged as WNP-4 HCL-CHL-1A and HCL-CHL-1B

**Rerated

***Test pressure of 463.5 psig is 1.5x design pressure of 309 psig.

****Rerated service water side design conditions as listed in item 8 above. Original service water side design conditions were 150 psig at 120°F.

Plan No. 2-0180

CERTIFICATE OF COMPLIANCE

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

Signed K J Conner (Owner or Owner's Designee) Plt Tech Mg (Title) 7/30/84 (Date) 19 ____

K Conner 7/30/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province~~ of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the Alteration** (Repair(s) or Replacement(s)) described in this Report on 8-16, 1984 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-16-84 James H. Brent (Inspector) Commissions 6265 W (State or ~~Province~~, National Board)

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

**Rerated

Plan No. 2-0180

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

1. Owner Washington Public Power Supply System (Name) Date 8/16/84
3000 George Washington Way, Richland, WA (Address) Sheet 2 of 3
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA (Address)
4. Identification of System Control Room Chiller Units

7. Description of Work (continued) NRC regulatory requirements associated with operating license for WNP-2 required the Supply System to install redundant, seismic Category 1 Control Room Chiller System for control room HVAC systems. Redundant control room chiller system was installed and tested in accordance with ASME, Section XI Plan No. 2-0180. This NIS-2 report covers the alteration of Control Room Chiller Units CCH-CR-1A and CCH-CR-1B (originally tagged as WNP-4 HCL-CHL-1A and HCL-CHL-1B) furnished by York Corporation for Supply System Plant No. WNP-4 and utilized on Supply System Plant No. WNP-2.

Alteration

Service water side of each one of the Control Room Chiller Units CCH-CR-1A and CCH-CR-1B were altered from 150# rating to 300# rating. The WNP-4 control room chiller units were altered to meet the service water system design conditions for WNP-2 plant as follows --

A. Field Work

The following field work was performed to alter control room chiller units

1. Removed 6" 150# flanges from the inlet and outlet sides.
2. Welded in new 6" 300# flanges.
3. MT examined the final welds. MT examination results acceptable.
4. Base material, filler material, MT examination acceptance criteria met the original construction code requirements of ASME Section III, Code Class 3, 1974 Edition with Winter 1975 Addenda.

B. Hydrostatic Test

1. Performed hydrostatic test at 463.5 psig.
2. No evidence of leakage was observed during the hydrostatic test.

C. Documentation

The following documents were generated, reviewed and/or revised to document alteration of control room chillers.

1. Performed engineering analysis (calculations) in the following areas:

   a) Analysis of allowable nozzle loads and stresses
   b) Evaluation of internal tubing
   c) Analysis of flanged joints

Plant No. 2-0180

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

1. Owner Washington Public Power Supply System Date 8/16/84
3000 George Washington Way, Richland, WA (Address) Sheet 3 of 3
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA (Address)
4. Identification of System Control Room Chiller Units

7. Description of Work (continued)

2. Performed engineering reconcilation for suitability of units for WNP-2 use.
3. Performed equipment qualification evaluation.
4. Revised certified design specification for the units.
5. Evaluated overpressure protection per ND-7000 requirements.
6. Reviewed original N-1 code data report for the units.

D. Name Plate

Additional name plate with the following information was attached adjacent to the original code data plate.

CCH-CR-1A AND CCH-CR-1B
"ALTERED BY WPPSS USER"
YEAR ALTERED: MAY 1984
ASME SECTION XI, 1980 EDITION, WINTER 1980 ADDENDA
309 PSI at 150°F
(MAX ALLOWABLE WORKING PRESSURE)
PLAN NO. 2-0180
HYDROSTATIC TESTED AT 463.5 PSIG

STATE OF WASHINGTON REQUIREMENTS

The above discussed field work, documentation and name plate satisfies requirements outlined by the Chief Boiler Inspector for the State of Washington in his letter, dated July 3, 1984, pertaining to alteration of ASME components. The letter from the Chief Boiler Inspector for the State of Washington is attached to this NIS-2 report.

CC14-CR-1A CHILLERS

FORM N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS*

As required by the Provisions of the ASME Code Rules DRAWING NO. 376-30787D

1. Manufactured by YORK DIVISION BORG-WARNER CORPORATION, YORK, PA., U.S.A.
(Name and address of Manufacturer)

2. Manufactured for Washington Public Power Richland, Washington
(Name and address of Purchaser)

3. Type horiz. (Horiz. or Vert.) Kind Ht.Exch. (Tank, Jacketed, Heat Ex.) Vessel No. (02510) (Mfrs. Serial No.) (State & State No.) Nat'l Bd. No. 55256 Yr. Built 1980

3a. Applicable ASME Code: Section III, Edition 1974, Addenda date W-1975, Case No. Tubes 1634-
Class 3 Weld. Electrodes 1567

Items 4–8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA-516-70 (Kind & Spec. No.) 70,000 (Min. of range specified) Nominal Thickness .312 in. Corrosion Allowance Non-cor. in. Dia. ft. 32" in. Length 14' ft. in.

5. Seams: Long Wld.D.B. W1d.S.B.78.S. H.T.[1] No R.T. No Efficiency 65%

Girth - H.T.[1] - R.T. - No. of Courses 1

6. Heads (a) Material N/A 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. (Convex or Concave)
(a)								
(b)								

If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or attach sketch)

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

8. Design Pressure[2] 30 psi at +20 °F at temp. of 250 °F. Drop Weight Charpy Impact ft-lb Pneumatic / Hydrostatic / Combination Test Pressure 38 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary: Material SA-516-70 (Kind & Spec. No.) Dia 42" X 36" (Subject to press.) in. Thickness 1.5 in. Attachment welded (Welded, Bolted)

Floating: Material N/A (Kind & Spec. No.) Dia. in. Thickness in. Attachment

10. Tubes: Material SB359#123 (Kind & Spec. No.) O.D. 3/4 in. Thickness #22 or gage Number 347 Type Straight (Straight or U)

Items 11 to 14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material N/A (Kind & Spec. No.) T.S. (Min. of range specified) Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.

12. Seams: Long N/A (Welded, Dbl., Single) H.T.[1] (Yes or No) R.T. Efficiency %

Girth H.T.[1] R.T. No. of Courses

DOCUMENT REVIEWED JUL 23'81 P.W.P. J.E.C.

13. Heads: (a) Material SA-516-70 T.S. 70,000 (b) Material SA-516-70 T.S. 70,000 (c) Material T.S.

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Cond.	.375	4.25	(End plate .5 Flat dia.			5-7/16")		concave
(b) Channel Clr.	.25	3.75	(End plate .5 Flat dia.			4-15/16")		concave
(c) Floating								

SA193B7; SA194Gr.1; 5/8"/ 36 each head

If removable, bolts used (a) (b) (c) (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or attach sketch)

14. Design pressure[2] 150 psi at +35 °F at temp. of 120 °F. Drop weight Charpy Impact ft-lb Pneumatic / Hydrostatic or Combination Test Pressure 225 psi

[1] If Postweld Heat-Treated. [2] List other internal or external pressures with coincident temperature when applicable.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information on 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 19, "Remarks."

FORM N-1 (back)

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location relieves thru suction line.

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Suction	1	10"	C.Stl.	SA234 WPB	Sch. 40	-	welded
discharge	1	6"	C.Stl	SA106B	Sch. 80	-	welded
hot gas	2	2-1/2"	C.Stl	SA106B	Sch. 40	-	welded
float chmbr.	1	22"	C.Stl.	SA516-70	375	-	welded
Drain	1	3/4"	C.Stl	SA106B	Sch.80		welded
water in/out	4	6"	C.Stl	SA106B	Sch.80	-	welded

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 plates (Describe) Attached Bot.-opp. ends - welded (Where & How)

19. Remarks: 32" x 14' cooler/cond.; Refrig. 11/ water tube side; Sight port glass is not covered by this data report. All welding per Sect. III, Sub. Sect ND. Note: window cut in shell for access for internal welding & testing replaced with single butt weld wi backup strip.

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at YORK DIVISION BORG-WARNER CORP., YORK, PA, U.S.A.

Stress analysis report on file at _____

Design specifications certified by R.H.Heidgerd Prof. Eng. State PA Reg. No. PE011243E

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

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules of construction of the ASME Code, Section III. YORK DIV. BORG-WARNER CORP.

Date 12/17/ 19 80 Signed YORK, PA, U.S.A. (Manufacturer) By J.J.Bertz

Manager Quality Assurance

Certificate of authorization Expires _____ Certificate of Authorization No. _____

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY YORK DIVISION BORG-WARNER CORPORATION at YORK, PA, U.S.A.

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or ~~XXXXX~~ of PENNSYLVANIA and employed by HARTFORD STEAM BOILER I.&I. of HARTFORD, CONN.

have inspected the pressure vessel described in this Manufacturer's Data Report on 12/15 19 80, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel 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 pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12/17/ 19 80

Inspector's Signature _____ Commissions NB 859 National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psi.

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

Date _____ 19 _____

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

DOCUMENT REVIEWED JAN 23 81 P.W.P. UE&C

HGL-CHL-1B
CCH-CR-1B

CHILLERS

FORM N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS*

As required by the Provisions of the ASME Code Rules. DRAWING NO. 376-30788D

1. Manufactured by YORK DIVISION BORG-WARNER CORPORATION, YORK, PA., U.S.A.
(Name and address of Manufacturer)

2. Manufactured for Washington Public Power, Richland, Washington
(Name and address of Purchaser)

3. Type horiz. (Horiz. or Vert.) Kind ht.exch. (Tank, Jacketed, Heat Ex.) Vessel No. (02511) (Mfrs. Serial No.) ( ) (State & State No.) Nat'l Bd. No. 55257 Yr. Built 1980

3a. Applicable ASME Code: Section III, Edition 1974, Addenda date W-1975, Case No. Tubes - 1634-2
Class ____. Weld Electrodes 1567

Items 4–8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA516-70 T.S. 70,000 (Kind & Spec. No.) (Min. of range specified) Nominal Thickness .312 in. Corrosion Allowance Non-cor. in. Dia. 32" in. Length 14' ft. ____ in.

5. Seams: Long Wld.S.B./B.S. H.T.¹ No R.T. No Efficiency 65 %
Wld.D.B. H.T.¹ No R.T. No Efficiency 70 %

Girth ____ H.T.¹ ____ R.T. ____ No. of Courses ____

6. Heads (a) Material N/A 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. (Convex or Concave)
(a)								
(b)								

If removable, bolts used ____ (Material, Spec. No., T.S., Size, Number) Other fastening ____ (Describe or attach sketch)

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

8. Design Pressure² 30 psi at +20 °F at temp. of 250 °F. Drop Weight ____ / Charpy Impact ____ ft-lb Pneumatic / Hydrostatic or Combination } Test Pressure 38 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material SA-516-70 (Kind & Spec. No.) Dia. 42"x36" (Subject to press.) in. Thickness 1.5 in. Attachment welded (Welded, Bolted)

Floating. Material N/A (Kind & Spec. No.) Dia. ____ in. Thickness ____ in. Attachment ____

10. Tubes: Material SB359#122 (Kind & Spec. No.) O.D. 3/4 in. Thickness #22 or gage ____ Number 347 Type straight (Straight or U)

Items 11 to 14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material N/A (Kind & Spec. No.) T.S. ____ (Min. of range specified) Nominal Thickness ____ in. Corrosion Allowance ____ in. Dia. ____ ft. ____ in. Length ____ ft. ____ in.

12. Seams: Long N/A (Welded, Dbl., Single) H.T.¹ ____ (Yes or No) R.T. ____ Efficiency ____ %

Girth ____ H.T.¹ ____ R.T. ____ No. of Courses ____

DOCUMENT REVIEWED FEB 12'81 P.W.P. U.E.&C.

13. Heads: (a) Material SA-516-70 T.S. 70,000 (b) Material SA-516-70 T.S. 70,000 (c) Material ____ T.S. ____

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Cond.	.375	4.25	(End plate .5		Flat dia. 5-7/16")			concave
(b) Channel	.25	3.75	(End plate .5		Flat dia. 4-5/16")			concave
(c) Floating	SA193B7/SA194Gr.1; 5/8"; 36 each head							

If removable, bolts used (a) ____ (b) ____ (c) ____ Other fastening ____ (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

14. Design pressure² 150 psi at +35 °F at temp. of 120 °F. Drop weight ____ / Charpy Impact ____ ft-lb Hydrostatic or Combination } Test Pressure 225 psi

¹If Postweld Heat-Treated. ²List other internal or external pressures with coincident temperature when applicable.
*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information on 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 19, "Remarks."

FORM N-1 (back)

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location Relieves thru suction line.

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Suction	1	10"	C.Stl.	SA234.WPB	sch.40	-	welded
Discharge	1	6"	C.Stl.	SA106B	sch.80	-	welded
hot gas	2	2-1/2"	C.Stl.	SA106B	sch.40	-	welded
Float Chmbr.	1	22"	C.Stl.	SA-516-70	.375	-	welded
Drain	1	3/4"	C.Stl.	SA106B	Sch.80	-	welded
Water In/Out	4	6"	C.Stl.	SA106B	Sch.80	-	welded

17. Inspection Openings: Manholes, No. _____ Size _____ Location _____
Handholes, No. _____ Size _____ Location _____
Threaded, No. N/A Size _____ Location _____

18. Supports: Skirt _____ (Yes or No) Lugs _____ (Number) Legs _____ (Number) Other plates (Describe) Attached bottom-opp.ends-welded (Where & How)

19. Remarks: 32" x 14' cooler/cond./Refrig. 11; Water tube side; sight port glass is not covered by this data report. All welding per Sect.III, Sub Sect.ND. Note: window cut in shell for access for internal welding and testing and replaced with a single butt weld with backup strip.

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at YORK DIVISION BORG-WARNER CORP., YORK, PA, U.S.A.

Stress analysis report on file at _____

Design specifications certified by R.H.Heidgerd Prof. Eng. State PA Reg. No. PE011243E

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

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules of construction of the ASME Code, Section III. YORK DIV. BORG-WARNER CORP.

Date 12/12/ 1980 Signed YORK, PA, U.S.A. (Manufacturer) By J.J.Bertz

Manager Quality Assurance

Certificate of authorization Expires May 6, 1981 Certificate of Authorization No. 1035

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY YORK DIVISION BORG-WARNER CORPORATION at YORK, PA, U.S.A.

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or ~~XXXXX~~ of PENNSYLVANIA and employed by HARTFORD STEAM BOILER I.&I. of HARTFORD, CONN.

have inspected the pressure vessel described in this Manufacturer's Data Report on 12/9/ 1980, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel 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 pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12/12/ 1980

Inspector's Signature _____ Commissions NB6315 National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____

have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psi.

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

Date _____ 19____

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

DOCUMENT REVIEWED FEB 12'81 P.W.P. U E & C

JOHN SPELLMAN
Governor

SAM KENNELLE
Director

STATE OF WASHINGTON

DEPARTMENT OF LABOR AND INDUSTRIES

300 West Harrison, Rm. 506 • Seattle, Washington 98119

July 3, 1984

Washington Public Power Supply System
Attention: L. T. Harrold, Assistant Director
WNP-2 - Engineering
3000 George Washington Way
P. O. Box 968
Richland, Washington 99352

SUBJECT: NUCLEAR PROJECT NO. 2; ALTERATION OF ASME ITEMS

Reference: (a) WNP-2 letter G02-84-0194 of 2 April 84
(b) Dept. of L&I (Boiler Section) letter of 13 April 84
(c) WNP-2 letter G02-84-301 of 14 May 84

Enclosure: National Board letter of 19 June 84

1. Although the references refer primarily to re-rating, the requirements listed below, in conjunction with any other requirements required by Section XI of the ASME Code, or the National Board Inspection Code, ANSI NB-23, should cover all alterations undertaken by WPPSS as the owner as defined in IWA-2110 of Section XI:

G02-84-366 "

a. An engineering analysis will be required and shall be prepared by a Registered Professional Engineer, licensed in the State of Washington, and forwarded for review by the enforcement authority at the location of the installation. OK

See plan No. 2-0180 OK

b. The Code Data Report will be reviewed prior to initiating the alteration.

Step 3.11A

c. The revised design conditions will be specified in the applicable design specifications, by revision or addendum which will be certified as required by NA/NCA 3000 of Section III, ASME Code. The design specification revision or addendum will indicate that this is an owner-user alteration.

CONTRACT 377 7-72 SEC 6.

See plan 2-0180. OK

d. Alterations are to be to the original construction code: later codes may be used provided their use is approved and documented in the revision or addendum of the design specifications.

Step e is for a through d.

e. The design report and/or stress report will be revised and certified, as required by NA/NCA 3000 to reflect the alteration and identify it as an owner-user alteration.

Step 3.12 f. Overpressure protection consideration will be evaluated and addressed as required by NX7000 of Section III.

Step 4.1A diff g. A hydrostatic test will be conducted and documented as required by NX6000 of Section III or the National Board Inspection Code for Section VIII items. 309 x 1.1 → 350 PSI. -273- 1T4/W75

Step 3.13 diff h. For nuclear components, an NIS-2 Data Report, signed by the owner and the Authorized Nuclear Inservice Inspector will be attached to the original Data Report. For non-nuclear pressure vessels, an R-1 report will be used. In either case, for National Board registered items, a copy will be sent to the National Board of Boiler and Pressure Vessel Inspectors.

Step 3.24 diff i. An additional name plate will be attached adjacent to the original name plate which shall include the words: "altered by WPPSS user", and the date and the MAWP and temperature. In addition, as applicable, the edition of the Code, the addenda, and the Code Case will be included. Such altered items are to be used only at the specific location for which the alteration is accomplished.

All pertinent documents part of plan No. 2-0180. j. Reports and records associated with the alteration will be made available to the Authorized Nuclear Inservice Inspector and retained by the owner at the plant site for review, on request, by the enforcement authority.

k. The above provides guidance for the accomplishment of alterations to both Section III and Section VIII items by the owner; however, it is realized that "all bases may not be covered". Please feel free to comment.

2. Your attention is invited to enclosure (1) which states that the National Board "NR" Certificate is needed as well as the National Board "VR" Certificate to repair Section III "N" stamped pressure relief devices.

Sincerely,

G. W. Folta
Chief Boiler Inspector

GWF:ab

cc: William H. Crumbaker, Assistant Director, B&CSIS
G. M. Foster, ANI-I, Kemper
C. Butros, WNP-3
Deputy Boiler Inspector, Vancouver
Deputy Boiler Inspector, Everett

2 AUG 1984 A MUST. & VR CERT. K-STAMP STATE

Plan No. 2-0181

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

1. Owner Washington Public Power Supply System (Name) Date 3/13/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA (Address)

4. Identification of System Low Pressure Core Spray (LPCS)

5. (a) Applicable Construction Code ASME III 19 71 Edition, S73 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LPCS-V-1	Velan	3155	N/A	N/A	N/A	1978	Replacement	YES, Class 2

7. Description of Work Replaced incorrect body to bonnet nuts to Valve LPCS-V-1. The replacement work was performed as follows:

1. Removed existing body to bonnet nuts one (1) at a time and replaced with new nut material SA-194 Gr.7
2. Retorqued nuts to the required torque value. NOTE: Pressure test to reconfirm (body to bonnet joint) pressure boundary integrity was not performed because existing nuts were removed and retorqued one (1) at a time, thus not breaking the pressure boundary.

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

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

Plan No. 2-0181

CERTIFICATE OF COMPLIANCE

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

Signed K D Gross Plt Tool Mgr 3/12 .19 84
(Owner or Owner's Designee) Title (Date)

K Gross 3/12/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington . employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 3-13 .19 84

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

Date 3-13-84 James Brant (Inspector) Commissions 6265 W (State or ~~Province~~, National Board)

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

Plan No. 2-Q182

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)

4. Identification of System Reactor Core Cooling System (RCC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Modified pipe support RCC-150 due to interference. Removed existing welds. Relocated support. Made required welds. Visually examined final welds. Visual examination results acceptable. Reinstalled snubber.

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

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

* RCC(36)-1-P1
Washington Public Power Supply System

Plan No. 2-0182

CERTIFICATE OF COMPLIANCE

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

Signed K D Conva (Owner or Owner's Designee) Pland Tech. Manager (Title) 10/29 (Date), 19 84

K Gupta 10/29/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Brant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0184

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

1. Owner Washington Public Power Supply System (Name) 3000 George Washington Way, Richland, WA. (Address) Date 10/31/84 Sheet 1 of 1

2. Plant WNP-2 (Name) Hanford, Benton County, WA. 99352 (Address) Unit N/A

3. Work Performed by Bechtel Power Corp. (Name) P.O. Box 600, Richland, WA. 99352 (Address) C-250 Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Lines PI(1)-4S-X38e and PI(1)-4S-X38f

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 1

7. Description of Work Modified instrument lines PI(1)-4S-X38e and PI(1)-4S-X38f as follows:

1. Removed portion of the existing instrument tubing.
2. Installed rerouted instrument tubing material.
3. Made required welds.
4. PT examined final welds. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

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

Test Pressure 1010 psi g Test Temp Amb. °F Component Design Pressure 1250 psig Temp. 550°F

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

* PI(1)-4S-X38e and PI(1)-4S-X38f
JCI - Johnson Control, Inc.

Plan No. 2-0184

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date), 19 84

K Cowan 10/11/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H. Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0185

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA. (Address)

4. Identification of System Instrument Lines PI(1)-4S-X71c and PI(1)-4S-71d

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced; and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 1
**	JCI	**	N/A	N/A	N/A	1982	Modification	Yes, Class 1

7. Description of Work Modified instrument lines PI(1)-4S-X71c and PI(1)-4S-X71d as follows:

1. Removed portion of the existing instrument tubing.
2. Installed rerouted instrument tubing material.
3. Installed new valves. S/Ns GP 1212 and GP 1229.
4. Made required welds.
5. PT examined final welds. PT examination results acceptable.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psi g Test Temp Amb °F Component Design Pressure 1250 psig Temp. 550° F

9. Remarks See attached NPV-1 Code Data Reports for new valves installed S/N GP 1212 and GP 1229 (Applicable Manufacturer's Data Reports to be attached)

* PI(1)-4S-X71c
** PI(1)-4S-X71d
JCI - Johnson Control, Inc.

Plan No. 2-0185

CERTIFICATE OF COMPLIANCE

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

Signed K A Cona (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date) ,19 84

K Swan 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H. Brent (Inspector) Commissions 6265 WS (State ~~or Province~~, National Board)

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

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by DRAGON VALVES.INC. • 13457 Excelsior Drive • Norwalk, CA. 90650 Order No. N20149T Suppl. #1
(Name & Address of Manufacturer)

2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 Order No. X56056 C/O #1 & 2
(Name and Address)

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

4. Location of Plant Richland, WA

5. Pump or Valve Identification Serial Numbers GP1118, GP1201, GP1203 thru GP1213, GP1215 thru GP1217 and GP1219 thru GP1227 (25 Pcs.)
1/2 Inch Instrument Valve, OS&Y. Part Number 7N057SW7D.
(Brief description of service for which equipment was designed)

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

(b) National Board No.

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

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

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

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

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 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 None			
(d) Other Parts			
Disc HT 825982	SA564 Gr. 630	Carpenter Technology Corp.	

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at Johnson Controls, Inc.

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

Stress analysis report certified by Kenneth Foster (1) Prof. Eng. State CA Reg. No. 12564

(1) Signature not required. List name only.

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

Date May 14, 1979 Signed DRAGON VALVES, INC. (Manufacturer) By [signature]

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 5-14-1979, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 5-14-1979

FOR [illegible] ONLY

[signature] (Inspector) Commissions Cal. 859 (National Board, State, Province and No.)

Printed in U.S.A.

PLAN No. 2-0185

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by DRAGON VALVES.INC. • 13457 Excelsior Drive • Norwalk, CA. 90650 Order No. N20149T Suppl. #1
(Name & Address of Manufacturer)

2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 Order No. X56056 C/O #1 & 2
(Name and Address)

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

4. Location of Plant Richland, WA

5. Pump or Valve Identification Serial Numbers GP1228 thru GP1232, GP1234, GP1235 and GP1237 thru GP1254 (25 Pcs.)
1/2 Inch Instrument Valve, OS&Y. Part Number 7N057SW7D.
(Brief description of service for which equipment was designed)

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

(b) National Board No.

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

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

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

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

(1) For manually operated valves only

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

FORM NPV-1 (back)

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

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at Johnson Controls, Inc.

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

Stress analysis report certified by Kenneth Foster (1) Prof. Eng. State CA Reg. No. 12564

(1) Signature not required. List name only.

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

Date May 14, 19 79 Signed DRAGON VALVES, INC. (Manufacturer) By [signature]

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 5-14-1979, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

FOR INFORMATION ONLY

Date 5-14-79

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

Printed in U.S.A.

Plan No. 2-0186

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA. (Address)
4. Identification of System Instrument Lines PI(1)-4S-X71e and PI(1)-4S-X71f
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 1
**	JCI	**	N/A	N/A	N/A	1983	Modification	Yes, Class 1

7. Description of Work Modified instrument lines PI(1)-4S-X71e and PI(1)-4S-X71f as follows:

1. Removed portion of the existing instrument tubing.
2. Installed rerouted instrument tubing material.
3. Installed new valves, S/Ns GP 1241 and GP 1246.
4. Made required welds.
5. PT examined final welds. PT examination result acceptable.
6. Performed pressure test to confirm pressure boundary integrity No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psig Test Temp Amb °F Component Design Pressure 1250 psig Temp. 550° F
9. Remarks See attached Code Data Reports for new valves installed, S/N GP 1241 and GP 1246.
(Applicable Manufacturer's Data Reports to be attached)

* PI(1)-4S-X71e
** PI(1)-4S-X71f
JCI - Johnson Control, Inc.

Plan No. 2-0186

CERTIFICATE OF COMPLIANCE

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

Signed K D Conan (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date), 19 84

K Conan 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

PLAN NO. 2-0186

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by DRAGON VALVES, INC. • 13457 Excelsior Drive • Norwalk, CA. 90650 Order No. N20149T Suppl. #1
(Name & Address of Manufacturer)

2. Manufactured for Johnson Controls, Inc., Richland, WA 99352 Order No. X56056 C/O #1 & 2
(Name and Address)

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

4. Location of Plant Richland, WA

5. Pump or Valve Identification Serial Numbers GP1228 thru GP1232, GP1234, GP1235 and GP1237 thru GP1254 (25 Pcs.)
1/2 Inch Instrument Valve, OS&Y. Part Number 7N057SW7D.
(Brief description of service for which equipment was designed)

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

(b) National Board No.

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

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

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

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

(1) For manually operated valves only

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

FORM NPV-1 (back)

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

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Johnson Controls, Inc.

Stress analysis report on file at Johnson Controls, Inc.

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

Stress analysis report certified by Kenneth Foster (1) Prof. Eng. State CA Reg. No. 12564

(1) Signature not required. List name only.

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

Date May 14, 19 79 Signed DRAGON VALVES, INC. (Manufacturer) By [signature]

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of CALIFORNIA and employed by Division of Industrial Safety of CALIFORNIA have inspected the equipment described in this Data Report on 5-14- 1979, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

FOR INFORMATION ONLY

Date 5-14 19 79

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

Printed in U.S.A.

Plan No. 2-0187

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

1. Owner Washington Public Power Supply System Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)

4. Identification of System Instrument Lines PI(1)-ST-X86B and PI(1)-ST-X87B

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Modified instrument lines PI(1)-ST-X86B and PI(1)-ST-X87B as follows:

1. Removed portion of the existing instrument tubing.
2. Installed new instrument tubing material.
3. Made required welds.
4. Visually examined final welds. Visual examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None (See Note 1)
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

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

Note 1 - Instrument line operates at atmospheric pressure, therefore pressure test to confirm pressure boundary integrity was not performed.

* PI(1)-ST-X86B and PI(1)-ST-X87B
JCI - Johnson Control, Inc.
WPPSS - Washington Public Power Supply System

Plan No. 2-0187

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date), 19 84

K Swed 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Brant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0188

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

1. Owner Washington Public Power Supply System (Name) Date 4/4/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA. (Address)
4. Identification of System Instrument Lines
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982**	Modification	Yes, 2

7. Description of Work Drilled 1/16" diameter hole through the end cap for each one of the condensate drain legs.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psig Test Temp _____ °F Component Design Pressure ~~psig~~ Temp. _____
K Sung 4/4/84.

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

JCI - Johnson Control, Inc.
*PI(1)-4S-X85d
*PI(1)-4S-X85e
*PI(1)-4S-X72c
*PI(1)-4S-X72d
**1983 for PI(1)-4S-X72d and PI(1)-4S-X85e

Plan No. 2-0188

CERTIFICATE OF COMPLIANCE

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

Signed [signature] Owner (Owner or Owner's Designee) Title Plt Tech Mgr (Date) 4/3/84 .19

VSmith 4/3/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-4 .19 84

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

Date 4-4-84 [signature] (Inspector) Commissions 6265 W (State ~~or Province~~, National Board)

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

Plan No. 2-0189

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

1. Owner Washington Public Power Supply System (Name) Date 11/7/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. 99352 (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Instrument Lines
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PI(1)-4S-X29d	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 2
PI(1)-4S-X42f	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 2
PI(1)-4S-X61c	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 2
PI(1)-4S-X62b	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 2
PI(1)-4S-X69e	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 1
PI(1)-4S-X72a	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 1

7. Description of Work The above listed instrument lines had to be modified to facilitate removal and reinstallation of valves PI-EFC-X29d, X42f, X62b, X69e and X72a. These valves were removed to overhaul the internals. The valves had to be overhauled to meet correct service conditions. The overhauled valves were reinstalled to meet correct service conditions. Made required welds. PT examined the final welds. PT examination results acceptable. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test for instrument lines PI(1)-4S-X72a and PI(1)-4S-X69e. Other instrument lines modified under this plan are air service lines which operate at atmospheric pressure, therefore system leakage test is not required nor performed.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 975** psig Test Temp Amb. °F Component Design Pressure 150 psig Temp. 150°F
Component Design Press. 1250 psig. Temp. 545°F**

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

* Same as listed under "Name of Component"
** For: PI(1)-4S-X72a and PI(1)-4S-X69e
JCI - Johnson Control, Inc.
WPPSS - Washington Public Power Supply System

Plan No. 2-0189

CERTIFICATE OF COMPLIANCE

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

Signed K L Kovar (Owner or Owner's Designee) Plant Tech. Manager (Title) 11/1 (Date), 19 84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 11-2, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-6-84 James H. Brent (Inspector) Commissions 6265 W (State or Province, National Board)

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

Plan No. .2-0192

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. (Name) (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250
P.O. Box 600 Richland, WA. (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Reactor Closed Cooling System (RCC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Portion of reactor closed cooling system was modified by installing new pipe support RCC-965N and also by modifying existing pipe support RCC-161.

The field work was performed as follows:

1. Modified pipe support RCC-161 by installing snubber assembly S/N 2153.
2. Installed new pipe support RCC-965N and snubber assembly S/N 2097.
3. Final installation acceptable.

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

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

* RCC(36)-1-P1
WPPSS - Washington Public Power Supply System

Plan No. 2-0192

CERTIFICATE OF COMPLIANCE

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

Signed K D Conan Plant Tech. Manager 10/29 ,19 84
(Owner or Owner's Designee) Title (Date)

K Smith 10/31/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermens Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0195

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

1. Owner Washington Public Power Supply System (Name) Date 4/10/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA (Address)

4. Identification of System CONTAINMENT INSTRUMENT AIR (CIA)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CIA-V-41A	B-W	20979	N/A	N/A	N/A	1977	Repaired	Yes, Class 2
CIA-V-41B	B-W	25880	N/A	N/A	N/A	1977	Repaired	Yes, Class 2

7. Description of Work Valve body to bonnet seal welds were cut to remove valve internals. The work was performed as follows:

1. Cut body to bonnet seal weld.
2. PT examined the seal weld prep (areas ground) areas on the body and the bonnet. PT examination results acceptable.
3. Lapped valve seating surfaces.
4. Reinstalled valve internals. Torqued bonnet into the valve body.
5. Made body to bonnet seal welds.
6. PT examined the seal welds. PT examination results acceptable.
7. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 145 psig Test Temp Amb °F Component Design Pressure 3600 psig Temp. 100°F

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

B-W - Borg-Warner

Plan No. 2-0195

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan (Owner or Owner's Designee) Plt Tech Mgr (Title) 4/10/84 (Date) ,19 ____

K. Cowan 4/10/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 4-10 ,19 84

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

Date 4-10-84 James Brent (Inspector) Commissions 6265 W (State ~~or Province~~, National Board)

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

Plan No. 2-0196

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

1. Owner Washington Public Power Supply System (Name) Date 4/10/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA (Address)
4. Identification of System Containment Instrument Air (CIA)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CIA(5)-1A	WPPSS	*	N/A	N/A	N/A	1983	Repaired	Yes, Class 3
CIA(5)-1B	WPPSS	**	N/A	N/A	N/A	1983	Repaired	Yes, Class 3

7. Description of Work Valves CIA-V-39A and CIA-V-39B were installed in the wrong direction in process piping CIA(5)-1A and CIA(5)-1B. Reinstalled these valves in the correct direction as follows -

1. Removed valves by cutting process piping CIA(5)-1A and CIA(5)-1B at the locations shown in the design drawings.
2. Reinstalled valves in the correct directions.
3. Made required welds.
4. Performed visual examination on the completed welds. Visual examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 145 psig Test Temp Amb °F Component Design Pressure 200 psig Temp. 200° F

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

*CIA(5)-1A-P1
**CIA(5)-1B-P1
WPPSS - Washington Public Power Supply System

Plan No. 2-0196

CERTIFICATE OF COMPLIANCE

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

Signed K D Conan Plt Tooling 4/10 ,19 84
(Owner or Owner's Designee) Title (Date)

K Smith 4/10/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 4-10 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-10-84 James Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0197

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

1. Owner Washington Public Power Supply System (Name) 3000 George Washington Way, Richland, WA. 99352 (Address) Date 11/1/84 Sheet 1 of 1

2. Plant WNP-2 (Name) Hanford, Benton County, WA. (Address) Unit N/A

3. Work Performed by WPPSS (Name) 3000 Geo. Wash. Way, Richland, WA. (Address) WPPSS Repair Organization P.O No., Job No., etc.

4. Identification of System Diesel Oil (DO)

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
DO-V-43	*	105	1153	N/A	N/A	1981	Modification	Yes, Class 3

7. Description of Work Modified (deactivated) valve DO-V-43 as follows:

1. Removed valve internals (i.e., poppet, stem, etc.) to deactivate the valve.
2. Reinstalled valve cover (bonnet) and bolting material.
3. Torqued bolting material to the required torque values.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ See Note 1

Test Pressure Atm psig Test Temp Amb. °F Component Design Pressure 100 psig Temp. 120°F

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

Note 1 - The location of the valve DO-V-43 in the system is such that it will be subjected to the same normal operating pressure as the diesel oil tank DO-TK-4, which is atmospheric. Therefore no system leakage test was performed.

* Marotta Scientific Controls

WPPSS - Washington Public Power Supply System

Plan No. 2-0197

CERTIFICATE OF COMPLIANCE

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

Signed K.D. Crowe (Owner or Owner's Designee) Plant Tech. Manager (Title) 11/1 (Date), 19 84

K. Crowe 11/1/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 11-1, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-1-84 James H. Brent (Inspector) Commissions 6265 WI (State or Province, National Board)

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

Plan No. 2-0198

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. 99352 (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Service Water System (SW)
5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
**DMA-CC-51	*	03-A097	235	N/A	N/A	1975	Repaired	Yes, Class 3

7. Description of Work Cooling coils for DMA-CC-51 were ruptured. These ruptured cooling coils (return bends) were repaired as follows:

1. Prepped split return bends for butt brazing.
2. Repaired splits for each return bends by brazing.
3. Visually examined repaired return bends. Visual examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 216 psi g Test Temp Amb °F Component Design Pressure 300 psig Temp. 200° F

9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

* CVI Corporation
** Also tagged as DMA-AH-51
WPPSS - Washington Public Power Supply System

Plan NO. 2-0198

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowa (Owner or Owner's Designee) Plant Tech. Manager (Title) 14/29 (Date), 19 84

K Sawa 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermens Mutual Casualty Co of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Brent (Inspector) Commissions 6265 W (State ~~or Province~~, National Board)

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

Plan No. 2-0199

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)

4. Identification of System Containment Purge Supply System (CSP)

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

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

7. Description of Work Repaired leaking threaded connections joining instrument line D220-031.0-1R64 to tank CSP-TK-51. The repair work was performed as follows:

1. Seal welded threaded connections.
2. MT examined final seal welds. MT examination results acceptable.
3. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☒ Other ☐
Test Pressure 105 psig Test Temp Amb °F Component Design Pressure 150 psig Temp. 150° F.

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

* D220-031.0-1R-64
JCI - Johnson Control, Inc.
WPPSS - Washington Public Power Supply System

Plan No. 2-0199

CERTIFICATE OF COMPLIANCE

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

Signed K D Conn Plant Tech. Manager 10/29, 19 84
(Owner or Owner's Designee) Title (Date)

K Smith 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermens Mutual Casualty Co of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Brant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0200

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by WPPSS (Name) Repair Organization P.O No., Job No., etc. WPPSS
3000 Geo. Wash. Way, Richland, WA 99352 (Address)

4. Identification of System Reactor Water Clean Up System (RWCU)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W71 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU-HX-2A	GE	223399	54362	N/A	N/A	1972	Replacement	Yes, Class 3

7. Description of Work Replaced diaphragm plate on RWCU-HX-2A channel head. The replacement work was performed as follows:

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1165 psi g Test Temp Amb °F Component Design Pressure 1450 psig Temp. 575°F

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

GE - General Electric
WPPSS - Washington Public Power Supply System

Plan No. 2-0200

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date) ,19 84

K S Swp 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington . employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84

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

Date 10/30/84 James H Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

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

Plan No. 2-0201

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Name) (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA 99352 (Address)

4. Identification of System Standby Liquid Control System (SLC)

5. (a) Applicable Construction Code ASME-III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SLC(1)-1S	WPPSS	SLC(1)-1S-P1	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Replaced existing restriction orifice plate in SLC-RO-1 with blank plate. Installed bolting material for the flange joint and torqued to the required torque value. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 125 psig Test Temp Amb °F Component Design Pressure 150 psig Temp. 225°F

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

WPPSS - Washington Public Power Supply System

Plan No. 2-0201

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan Plant Tech. Manager 10/29 ,19 84
(Owner or Owner's Designee) Title (Date)

K Cowan 10/11/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H. Brent (Inspector) Commissions 6265 W (State ~~or Province~~, National Board)

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

Plan No. 2-0202

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

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA 99352 (Address)

4. Identification of System Residual Heat Removal System (RHR)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-V-85B	BW	20217	N/A	N/A	N/A	1977	Modification	Yes, Class 1
RHR-V-85C	BW	20218	N/A	N/A	N/A	1977	Modification	Yes, Class 1

7. Description of Work Modified valves RHR-V-85B and RHR-V-85C from globe valves to stop check valves. The modification work was performed as follows:

1. Cut body to bonnet seal welds.
2. Removed valve internals.
3. PT examined the body and bonnet seal weld preped areas. PT examination results acceptable.
4. Installed "stop check" valve internals into the valves.
5. Inserted bonnets into the valve bodies.
6. Made body to bonnet seal welds.
7. PT examined the final seal welds. PT examination results acceptable.
8. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure * psig Test Temp Amb °F Component Design Pressure 3600 psig Temp. 100°F

9. Remarks See attached N-2 Code Data Report for new disc material installed.
(Applicable Manufacturer's Data Reports to be attached)

Valve Tag No.	Valve Serial No.	Disc Serial No.
RHR-V-85B	20217	5424
RHR-V-85C	20218	5425

BW - Borg Warner
*Test pressure of 100 psig for RHR-V-85B and 148psig for RHR-V-85C.
WPPSS - Washington Public Power Supply System

Plan No. 2-0202

CERTIFICATE OF COMPLIANCE

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

Signed K D Cowan (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date) ,19 84

K Swift 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84

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

Date 10/30/84 James H Brent (Inspector). Commissions 6265W (State ~~or Province~~, National Board)

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

PLAN NO. 2-0202

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 Nuclear Valve Division of B.W. 7500 Tyrone Ave. Van Nuys CA 91409
(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 N/C 5H26 S/N 5424 5425 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. 71638 Drawing Prepared by NVD of Borg Warner

(b) Description of Part Inspected Disc

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W '75, Case No. N/A Class 1

3. Remarks: Parts supplier herein may not be stamped with the NPT symbol stamp due
(Brief description of service for which component was designed)
to size or other considerations as in NCA 8331. ← NA-8312

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 5/29 19 84 Signed NVD of Borg Warner By Nicia R. Smith
(NPT Certificate Holder)

Certificate of Authorization Expires October 27, 1984 Certificate of Authorization No. NPT 1255

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Nuclear Valve Div., Borg-Warner, 7500 Tyrone Ave., Van Nuys CA

Stress analysis report on file at N/A

Design specifications certified by N/A Prof. Eng. State N/A Reg. No. N/A

Stress analysis report certified by N/A Prof. Eng. State N/A Reg. No. N/A

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 Lumberman's Mutual Casualty of Long Grove, Illinois have inspected the part of a pressure vessel described in this Partial Data Report on 5-29 1984, 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 May 29 1984

Robert C. Robbins Commissions NB# 7144 Cal.# 1216
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 (E000-40) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Plan No. 2-0132

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

1. Owner Washington Public Power Supply System (Name) Date 3/2/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System CRD - Control Rod Drive Hydraulic System

5. (a) Applicable Construction Code ASME III 19 71 Edition, W.73 Addenda, Code Cases 1571, 1644-7, 1606-1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W.'80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CRD (60)-3	GE	N/A	N/A	N/A	*	1982	Replacement	Yes, Class 2

7. Description of Work Replacement of U'Bolt for hanger CRD-1001-13 to increase required clearance. Replacement U'Bolt material identical to the original U'Bolt material. U'Bolt replacement acceptable.

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

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

GE - General Electric Co.
* - CRD - SCRAM/Instr. Dwg. No. X01-75E-M100

Plan No. 2-0132

CERTIFICATE OF COMPLIANCE

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

Signed A/Cowan (Owner or Owner's Designee) Plt Tech Mgr (Title) 3/2/84 (Date) .19 ____

K Schuetz 3/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington . employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 3-2 ,1984

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-2-84 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0134

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 1/6/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P O Box 600, Richland, WA 99352 (Address)

4. Identification of System HY(1)-6S-B-P1

5. (a) Applicable Construction Code ASME III's 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
**	BPC*	**	N/A	N/A	N/A	1983	Modified	Yes, Class 2

7. Description of Work The flow direction for valves HY-V-17B, HY-V-33B, HY-V-34B, HY-V-19B, HY-V-35B, HY-V-20B and HY-V-36B in stamped instrument line HY(1)-6S-B-P1 was reversed. The modification work was performed as follows:

1. Removed existing field weld from one end of each set of two valves.
2. Reversed orientation as shown on design drawings.
3. No new base material was used.
4. Made required field welds.
5. The valve tags were changed accordingly per the design drawings.
6. PT examined all socket field welds. PT examination acceptable.
7. Performed system leakage test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 2200 psi Test Temp 77 °F Component Design Pressure 2200 psi Temp. 185°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*Bechtel Power Corporation
** HY(1)-6S-B-P1

Plan No. 2-0134

CERTIFICATE OF COMPLIANCE

certify that the statements made in this report are correct and this modification conforms to Section XI of the ME Code.

gned [signature] (Owner or Owner's Designee) R.R. Jones Engin Mgr 1/9 (Title) (Date) ,19 84

K.S.W. 1/6/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-9 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-9-84 James Brent (Inspector) Commissions 6265W (State or ~~Province~~, National Board)

ote: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., 2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered nd the number of sheets is recorded at the top of this form.

Plan No. 2-0135

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 1/6/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System HY(1)-6S-A-P1

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
**	BPC*	**	N/A	N/A	N/A	1983	Modified	Yes, Class 2

7. Description of Work The flow direction for valves HY-V-20A, HY-V-36A, HY-V-17A, HY-V-33A, HY-V-19A, HY-V-35A, HY-V-18A, and HY-V-34A in stamped instrument line HY(1)-6S-A-P1 was reversed. The modification work was performed as follows:

1. Removed existing field weld from one end of each set of two valves.
2. Reversed orientation as shown on design drawings.
3. No new base material was used.
4. The valve tags were changed accordingly per the design drawings.
5. Made required field welds.
6. PT examined all socket field welds. PT examination acceptable.
7. Performed system leakage test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 2200 psi Test Temp 92 °F Component Design Pressure 2200 psi Temp. 185 °F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* Bechtel Power Corporation
** HY(1)-6S-A-P1

Plan No. 2-0135

CERTIFICATE OF COMPLIANCE

certify that the statements made in this report are correct and this modification conforms to Section XI of the ME Code.

gned [signature] C.R Noyes Engr Mgr 1/9. .1984
(Owner or Owner's Designee) Title (Date)

1/6/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington . employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 1-9 .19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-9-84 James Brent (Inspector) Commissions 4.2.84 ~~7460H~~ 6265 W (State ~~or Province~~, National Board)

ote: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., 2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered id the number of sheets is recorded at the top of this form.

Plan No. 2-0136

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 3/2/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corp. (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Instrumentation Line PI(1)-ST-X84b.
5. (a) Applicable Construction Code ASME III 19 74 Edition, W.75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980 W. '80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Replacement	yes, Class 3

7. Description of Work Hanger 220-6 was replaced. The replacement hanger is of the same design and location as the original hanger. Hanger installation acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

JCI - Johnson Controls, Inc.
* PI(1)-ST-X84b

Plan No. 2-0136

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed K Vorwerk (Owner or Owner's Designee) Title QC Tech Mgr (Date) 3/2/84 .19 ____

K Vorwerk 3/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 3-2 .19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-2-84 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM Plan No. 2-0137

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, S72 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment Vessel	PDM	12764	790	N/A	N/A	1976	Repaired	Yes (Class MC) Note: Class 1 process piping repaired.

7. Description of Work A minimum wall deviation caused by blending was repaired on the 1" spare line (f) of penetration number 80. The area was repaired as follows:

1. The excavation was PT examined. PT examination results acceptable.
2. Weld built up the excavated area.
3. UT examined the welded area for wall thickness check.
4. PT and RT examined the weld area. PT and RT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psi g Test Temp Amb. °F Component Design Pressure 45 psi a Temp. 340°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

PDM - Pittsburg-Des Moines Steel Company
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0137

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed K D Cowan (Owner or Owner's Designee) Plt Tech Mgr (Title) 2/21 (Date) .19 84

K Cowan 2/21/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-21 .19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 (Inspector) Commissions 7458 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0138

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) - Date 3/2/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System CRD - Control Rod Drive Hydraulic System

5. (a) Applicable Construction Code ASME III 19 71 Edition, W.73 Addenda, Code Cases 1571, 1644-7, 1606-1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W '80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CRD-SCRAM/INST.	GE	N/A	N/A	N/A	*	1982	Modification	Yes, Class 2

7. Description of Work Modification of Control Rod Drive Hydraulic System Component supports as follows:

1. Supports G-546, G-302, G-402, and G-619 were modified to correct clearances as shown on the design drawings. No welding performed. Support modification acceptable.
2. Support CRD-900S was removed because it was not required as verified by analysis.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

GE - General Electric Co.

* - CRD/SCRAM/INSTR., Dwg. No. X01-75E-M100

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plt Tech mgr 3/2/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

3/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 3-2 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-2-84 [signature] (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0139

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by WPPSS (Name) N/A
WNP-2 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Primary Containment Atmospheric Control System (CAC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, S73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N308 & N236

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
**	APCI*	76-129-3	5209	N/A	N/A	1977	Replacement	Yes, Class 2
**	APCI*	76-130-3	5210	N/A	N/A	1977	Replacement	Yes, Class 2

7. Description of Work Tubing and associated swagelok threaded fittings to instruments CAC-FT-5A, 5B, 7A, 7B, and CAC-PT-68B were replaced. No welding performed. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PCILRT
Test Pressure 35.2 psi g Test Temp Amb °F Component Design Pressure 45 psia Temp. 340°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* Air Products and Chemicals, Inc.
** Post LOCA Recombiners CAC-HR-1A and 1B
PCILRT - Primary Containment Integrated Leak Rate Test

Plan No. 2-0139

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed K. Simon 2/17/84 (Owner or Owner's Designee) Title R.E. Tech Mgr (Date) 2/21 ,19 84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 (Inspector) Commissions [illegible] (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0140

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
   3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250
   P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A.
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(18)-2	WPPSS	MS(18)-2-3	N/A	N/A	N/A	1983	Replacement	Yes, Class 2

7. Description of Work Removed defective snubber PSA-10, serial number 13043 and replaced with PSA-10, serial number 9925 on hanger MSRV-1A-4.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
   Test Pressure _____ psi Test Temp _____ °F Component Design Pressure N/A Temp. N/A

9. Remarks None
   (Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System

Plan No. 2-0140

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [signature] R&T Tech Mgr. 2/21 .19 84
(Owner or Owner's Designee) Title (Date)

K Gusell 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 2-21 .19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 [signature] (Inspector) Commissions 7486 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0141

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/23/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Reactor Water Cleanup (RWCU)

5.(a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU(1)-3A	WPPSS	RWCU-(1)-3A-P1	N/A	N/A	N/A	1983	Modified	Yes, Class 3
RWCU(1)-3B	WPPSS	RWCU-(1)-3B-P1	N/A	N/A	N/A	1983	Modified	Yes, Class 3

7. Description of Work Reactor water clean-up piping to relief valves RWCU-RV-262A and RWCU-RV-262B was modified. The modification work consisted of installing flanges in the piping. The modification work was performed as follows:

1. Cut section of piping to install flanges.
2. Installed flanges by welding.
3. VT examined final welds. VT examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure * psig Test Temp Amb °F Component Design Pressure 1420 psig Temp. 150°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System
*RWCU-RV-262A at 1181 PSIG
*RWCU-RV-262B at 1250 PSIG

Plan No. 2-0141

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Asst Mgr 4/24/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

[signature] 4/24/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-23 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4.23.84 J Grant (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0141

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 6.23/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Water Cleanup (RWCU)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W71 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU-HX-1A	GE	223395	54361	N/A	N/A	1972	Modified	Yes. Class 3
RWCU-HX-1B	GE	223396	54361	N/A	N/A	1972	Modified	Yes, Class 3
RWCU-HX-2A	GE	223399	54362	N/A	N/A	1972	Modified	Yes. Class 3

7. Description of Work Reactor water clean-up heat exchanger piping from heat exchanger RWCU-HX-1A to relief valve RWCU-RV-3, from heat exchanger RWCU-HX-2A to relief valve RWCU-RV-2, and from heat exchanger RWCU-HX-1C to relief valve RWCU-RV-1 was modified. The modification work consisted of installing flanges in piping between the heat exchangers and relief valves. The modification work was performed as follows:

1. Cut section of piping to install flanges.
2. Installed flanges by welding.
3. VT examined final welds. VT examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1165 psig Test Temp Amb °F Component Design Pressure 1450 psig Temp. 575°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

GE - General Electric

Plan No. 2-0141

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Lt Technician 4/26/84 .19__
(Owner or Owner's Designee) Title (Date)

[signature] 4/26/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois. have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-23 .19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-23-84 [signature] (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0142

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
   3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
   P.O. Box 600, Richland, WA 99352 (Address)
4. Identification of System Reactor Water Cleanup (RWCU)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
6"RWCU(3)-4	WPPSS	RWCU(3)-4-P1	N/A	N/A	N/A	1983	*	Yes, Class 1

7. Description of Work Hanger RWCU-1C-5 was removed and reinstalled at the same location. Removal was required to facilitate adjacent construction activity. No welding or new material used.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
   Test Pressure _____ psi Test Temp _____ °F Component Design Pressure N/A Temp. N/A

9. Remarks None
   (Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System

* Removal and Reinstallation

Plan No. 2-0142

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this * conforms to Section XI of the ASME Code.

Signed K D Cowan (Owner or Owner's Designee) Pt Tech Mgr (Title) 2/21 (Date) .19 84

K Cowan 2/21/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the * (Repair(s) or Replacement(s)) described in this Report on 2-21 .19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 M. M. Hyatt (Inspector) Commissions 7486W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

* Removal and Reinstallation

Plan No. 2-0143

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-1-X54Bf

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 2

7. Description of Work Rerouted a portion of stamped instrument line PI(1)-1-X54Bf. The modification work was performed as follows:

1. Removed a portion of the existing instrument piping.
2. Installed rerouted instrument piping as shown on the design drawings.
3. Made required sucker field welds.
4. PT examined socket field welds. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 61 psi g Test Temp Amb. °F Component Design Pressure 150 psi Temp. 150°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

JCI - Johnson Control, Inc.

* PI(1)-1-X54Bf

Plan No. 2-0143

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K L Cowan Plt Tech Mgr 2/21 ,19 84
(Owner or Owner's Designee) Title (Date)

K Cowan 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 D. M. Foster (Inspector) Commissions 7486 W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM Plan No. 2-0144

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System Date 2/21/84

3000 George Washington Way, Richland, WA 99352 (Name) (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A

Hanford, Benton County, WA (Name)

3. Work Performed by Bechtel Power Corporation C-250

P.O. Box 600, Richland, WA 99352 (Name) (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Line PI(1)-ST-(SW-SR-42)-A

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modified	Yes, Class 3

7. Description of Work: Rerouted and replaced a damaged portion of stamped instrument line ½" PI(1)-ST(SW-SR-42)-A. The modification work was performed as follows:

1. Removed a portion of the existing instrument piping.
2. Installed rerouted instrument piping as shown on the design drawings.
3. Made required socket field welds.
4. Visually examined the completed socket field welds. Visual examination results acceptable.
5. The block clamps of hangers B220-HGR-116-5 and B22-HGR-116-10 were replaced and bolting retorqued.
6. Performed pressure test to reconfirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐

Test Pressure 217 psig Test Temp Amb. °F Component Design Pressure 300 psi Temp. 150°F

9. Remarks Block clamp replacement for hangers B220-HGR-116-5 and B220-HGR-116-10 was included in this instrumentation piping modification.

(Applicable Manufacturer's Data Reports to be attached)

JCI - Johnson Control, Inc.

*PI(1)-ST(SW-SR-42)-A

Plan No. 2-0144

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K D Cowan (Owner or Owner's Designee) Plt Tech Mgr (Title) 4/21 (Date) ,19 84

K Cowan 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 J. W. Smith (Inspector) Commissions 7486 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0145

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name)
P.O. Box 600, Richland, WA 99352 (Address) C-250 Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Line PI(1)-4S-X44Ah

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 1

7. Description of Work Modified instrument line PI(1)-4S-X44Ah to resolve interference. The instrument line was modified as follows:

1. Removed section of existing instrument line.
2. Installed rerouted line by welding.
3. PT examined final welds. PT examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psig Test Temp 164 °F Component Design Pressure 1250 psig Temp. 535°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* PI(1)-4S-X44Ah
JCI - Johnson Control, Inc.

Plan No. 2-0145

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] [illegible] Owner or Owner's Designee) Title (Date) 2/3/84 .19 ____

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-7-84 [signature] (Inspector) Commissions 7486W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0146

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352. (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Reactor Closed Cooling (RCC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8"RCC(3)-1	WPPSS	RCC(3)-1-R1	N/A	N/A	N/A	1983	Repaired	Yes, Class 3

7. Description of Work Increased the fillet weld size for the support pad attached to the pipe for hanger RRC=434 as shown on drawing RRC-831-38.40. The completed weld was visually examined. Visual examination acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure N/A Temp. N/A

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System

Plan No. 2-0146

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed K.D. Cowan (Owner or Owner's Designee) Ret Tech Mgr (Title) 2/21 (Date) .19 84

K Cowan 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 2-21 .19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 A. M. Smith (Inspector) Commissions 7486 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0147

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System Date 2/21/84
   3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation C-250
   P.O. Box 600, Richland, WA 99352 (Name) Repair Organization P.O No., Job No., etc.
   (Address)
4. Identification of System Instrument Line PI(1)-1-X54Aa
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2

7. Description of Work Hanger B-220-1286-72 was fabricated and added to instrument line PI(1)-1-X54Aa as shown on the design drawings. The hanger welds were visually examined. Visual examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
   Test Pressure _____ psi Test Temp _____ °F Component Design Pressure N/A Temp. N/A

9. Remarks None
   (Applicable Manufacturer's Data Reports to be attached)

JCI - Johnson Controls, Inc.
* PI(1)-1-X54Aa

Plan No. 2-0147

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K.J. Cowan (Owner or Owner's Designee) Title Risk Mgr (Date) 2/21, 19 84

K. Scott 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 M. W. Stelter (Inspector) Commissions 7486 a (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0148

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant: WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-4S-X85d

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	N/A	N/A	N/A	N/A	1982	Modified	Yes, Class 2

7. Description of Work: Rerouted a section of stamped instrument line PI(1)-4S-X85d. The modification work was performed as follows:

1. Removed a section of the existing instrument piping.
2. Installed rerouted instrument piping as shown on the design drawings.
3. Made required field welds.
4. PT examined the welds. PT examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None (see Note 1)
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure Atm Temp. 150°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

Note 1: Line is air service line which operates at atmospheric pressure, therefore system leakage test not required or performed.

* PI(1)-4S-X85d
JCI - Johnson Controls, Inc.

Plan No. 2-0148

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] K.J. Cowan Pipe Tool Mgr 7/3/84 ,19__
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-7, 19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-7-84 [signature] Commissions 7486 W
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0149

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrumentation Line PI(1)-4S-X44Ag

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 1

7. Description of Work Hanger B-220-1278-43 was fabricated and added to process instrument line PI(1)-4S-X44Ag as shown on the design drawings. The hanger welds were visually examined. Visual examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure N/A Temp. N/A

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

JCI - Johnson Controls, Inc.
* PI(1)-4S-X44Ag

Plan No. 2-0149

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K D Cowan P.M. Tech Mgr 2/21 ,19 84
(Owner or Owner's Designee) Title (Date)

E Smith 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21-84, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 [signature] Commissions 7486W
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0150

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 3/2/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit
Hanford, Benton County, WA (Name) (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Residual Heat Removal (RHR)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W.73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W. '80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(1)-4B	WPPSS	RHR(1)-4B-P1	N/A	N/A	N/A	1983	Modification	Yes, Class 1

7. Description of Work Modification of support RHR-907N baseplate was performed as follows:

1. Removed existing baseplate. Visually examined removal area. Visual examination results acceptable.
2. Installed new baseplate.
3. Made required field welds.
4. Completed welds were visually examined. Visual examination results acceptable.
5. Support reinstallation acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0150

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K L Conner P.E. Tech Mgr 3/2/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

K L Conner 3/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 3-2 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-2-84 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0151

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Main Steam (MS)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(18)-2-7	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 3

7. Description of Work Hanger MS-303 was modified to provide correct alignment and contact with the lubrite plate. No code welding or material was added.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure N/A Temp. N/A

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System

* MS(18)-2-7-P1

Plan No. 2-0151

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K L Conran Plt Tech Mgr 2/21 ,19 84
(Owner or Owner's Designee) Title (Date)

K Simons 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 A. M. Smith (Inspector) Commissions 7488a (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0152

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/21/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Reactor Feedwater (RFW)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RFW(1)-4B	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 1

7. Description of Work Modification to relocate hanger RFW-170 to provide correct snubber alignment. The welded hanger removal area and new hanger attachment welds were visually examined. Visual examination and hanger installation acceptable. No new base material was added.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure N/A Temp. N/A

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System
*RFW(1)-4B-P1

Plan No. 2-0152

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K L Kowan Plt Tech Mgr 2/21 .19 84
(Owner or Owner's Designee) Title (Date)

K Gauch 2/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington . employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-21 .19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-21-84 A. W. Smith (Inspector) Commissions 7HDW (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0153

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/25/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Residual Heat Removal (RHR)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(3)-2A	WPPSS	*	N/A	N/A	N/A	1983	modification	Yes, Class 2

7. Description of Work Modification to increase fillet weld size on hanger RHR-132 as shown on the design drawings. The completed weld was visually examined. Visual examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System
* RHR(3)-2A-P1

Plan No. 2-0153

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K D Cowan (Owner or Owner's Designee) Title QC Tech Mgr (Date) 2/24/84 .19 ____

K Snipes 2/24/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 2-25 .19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-25-84 James Brent (Inspector) Commissions 6265 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0154

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 3/13/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Main Steam (MS)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(18)-2-13	WPPSS	*	N/A	N/A	N/A	1983	modification	Yes Class 2

7. Description of Work Modification to relocate hanger MSRV-4B-8 snubber and bracket to provide alignment as shown on the design drawings. The snubber brackets were removed and re-installed. The completed welds were visually examined. Visual examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System

* MS(18)-2-13-P1

Plan No. 2-0154

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K D Gowan Dist Tech Mgr 3/13/ ,19 84
(Owner or Owner's Designee) Title (Date)

K Gowan 3/13/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 3-13 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-13-84 James Brent Commissions 6265W
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0155

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 3/2/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Reactor Core Isolation Cooling (RCIC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC(19)-1	WPPSS	*	N/A	N/A	N/A	1983	modification	Yes, Class 2

7. Description of Work Modification to remove shear lugs adjacent to hanger RCIC-2562-24, as shown on the design drawings to provide interference clearance. Work performed as follows:

1. The lugs were removed to an acceptable height.
2. Lugs not ground to the piping base material surface were visually examined.
3. Where lugs were completely removed the piping base metal removal area received a PT and UT for thickness examination. PT examination and remaining thickness results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System

* RCIC(19)-1-P1

Plan No. 2-0155

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K.D. Severn Plt. Technician 3/2/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

L Sims 3/2/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 3-2 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-2-84 James Brent Commissions 6265W
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0156

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 12/30/83
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Washington Public Power Supply System (Name) N/A Repair Organization P.O No., Job No., etc.
WNP-2 (Address)

4. Identification of System Reactor Recirculation

5. (a) Applicable Construction Code ASME III 19 74 Edition, W'75 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W'80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve					Model			
HY-V-17A	*	7	N/A	N/A	82M-002	1982	Repaired	Yes, Class 2
HY-V-18A	*	9	"	"	"	"	"	"
HY-V-19A	*	11	"	"	"	"	"	"
HY-V-33A	*	8	"	"	"	"	"	"
HY-V-34A	*	10	"	"	"	"	"	"
HY-V-35A	*	12	"	"	"	"	"	"
HY-V-17B	*	2	"	"	"	"	"	"
HY-V-18B	*	4	"	"	"	"	"	"
HY-V-19B	*	6	"	"	"	"	"	"
HY-V-33B	*	1	"	"	"	"	"	"
HY-V-34B	*	3	"	"	"	"	"	"
HY-V-35B	*	5	"	"	"	"	"	"

7. Description of Work: The above valves disassembled and reassembled as follows:
1. The body to bonnet seal weld was removed. Weld removal area PT examined. PT examination acceptable.
2. After reassembly, the new body to bonnet seal welds were made.
3. Seal welds were PT examined. PT examination acceptable.
4. Performed normal operating pressure test. No evidence of leakage.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 2200 psi Test Temp 77 °F Component Design Pressure 2200 psi Temp. 180°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* Target Rock Corporation

Plan No. 2-0156

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed C.P. Noyes Engr Mgr 1/3 ,19 84
(Owner or Owner's Designee) Title (Date)

1/3/83.

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 1-5 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-5-84 (Inspector) Commissions 7468W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0157

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/4/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 2

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Name) (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System RHR, RCIC, REW, and RRC

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W. '80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-287	WPPSS	RHR(1)-4C	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-383	WPPSS	RHR(1)-4A	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-389	WPPSS	RHR(1)-4B	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-390	WPPSS	RHR(1)-4B	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-521	WPPSS	RHR(1)-4B	N/A	N/A	N/A	1983	Rework	Yes, Class 1
(CONTINUED ON SHEET 2)								

7. Description of Work The fasteners for the piping component supports ("E" system clamps) listed above were retorqued to conformance with the final as-built torque setting. Retorqueing of "E" system clamps acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp. _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0157

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this rework conforms to Section XI of the ASME Code.

Signed [signature] [signature] 4/3/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

4/3/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington . employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the rework described in this Report on 4-4 ,19 84
(Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-4-84 James Brent Commissions 6265W
(Inspector) (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0157

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/4/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 2 of 2
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)
4. Identification of System RHR, RCIC, RFW, and RRC
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-SB-32	WPPSS	RHR(1)-4B	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RCIC-IC-16	WPPSS	RCIC-(12)-4CL1	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RFW-147	WPPSS	RFW(1)-4A	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RFW-163	WPPSS	RFW(1)-4B	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RFW-171	WPPSS	RFW(1)-4B	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RFW-915N	WPPSS	RFW(1)-4B	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-SA-51	WPPSS	RRC(51)-4	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-SA-52	WPPSS	RRC(51)-4	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RRC-12	WPPSS	RRC(51)-4	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RRC-IC-2	WPPSS	RRC(51)-4	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-SA-53	WPPSS	RHR(1)-41A	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-SA-54	WPPSS	RHR(1)-41A	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-SA-55	WPPSS	RHR(1)-41A	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-SA-57	WPPSS	RHR(1)-41A	N/A	N/A	N/A	1983	Rework	Yes, Class 1
RHR-SA-59	WPPSS	RHR(1)-41A	N/A	N/A	N/A	1983	Rework	Yes, Class 1

Plan No. 2-0158

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 3/13/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corp. (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Reactor Recirculation (RRC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W.73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W.'80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RRC(5)-4S	WPPSS	RRC(5)-4S-A-P1	N/A	N/A	N/A	1983	modification	YES, Class 2

7. Description of Work Installed U bolt for support RRC-1552-113A
-U bolt installation acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0158

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed A J Conner Ref Tool Mgr 3/12 ,19 84
(Owner or Owner's Designee) Title (Date)

K Bishop 3/12/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumberman's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 3-13 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-13-84 James Brant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0159

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/10/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-4S-X73e

5.(a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified Support D-220-HGR-1030-13 in accordance with the design drawing. Performed visual examination on the final welds. Visual examination results acceptable. Reinstalled "U" bolt for Hanger B220-1231-31.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*PI(1)-4S-X73e
JCI - Johnson Control Inc.

Plan No. 2-0159

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K.L. Conan Plt Tech Lead 4/10/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

K. Smyers 4/10/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington . employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification described in this Report on 4-10 ,19 84
(Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-10-84 James Brent Commissions 6265W
(Inspector) (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the numoer of sheets is recorded at the top of this form.

Plan No. 2-0160

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/16/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-4S-X82f

5.(a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2

7. Description of Work Modified Support B220-1053-37 for Instrument Line PI(1)-4S-X82f in accordance with the design drawings.
Final welds were visually examined. Visual examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*PI(1)-4S-X82f
JCI - Johnson Control Inc.

Plan No. 2-0160

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plt Tahmyn 4/16/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

K Swab 4/14/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-16 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-16-84 [signature] Commissions 6265W
(Inspector) (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0161

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/10/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-4S-X79b

5. (a) Applicable Construction Code ASME III, 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modified	Yes, Class 1

7. Description of Work: Modified instrument line PI(1)-4S-X79b to resolve interference. The instrument line was modified as follows:

1. Removed section of existing instrument line.
2. Installed rerouted line by welding.
3. PT examined final welds. PT examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psig Test Temp 164 °F Component Design Pressure 1250 psia Temp. 533°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* PI(1)-4S-X79b
JCI - Johnson Control, Inc.

Plan No. 2-0161

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K L Kovar Plt Tech Mgr 4/10/84 ,19
(Owner or Owner's Designee) Title (Date)

K Swab 4/10/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-10, 1984 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-10-84 James Brent (Inspector) Commissions 6265 W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0162

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/23/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Instrument Line PI(1)-ST-X82c

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
-*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes. Class 3
SW-RV-25	Crosby	**	N/A	N/A	N/A	1980	Added	Yes, Class 2

7. Description of Work Modified instrument line as follows:
1. Cut and removed instrument tubing.
2. Installed new tubing and fittings.
3. Installed new relief valves SW-RV-25 in the modified portion of the instrument tubing.
4. Made required welds. Performed visual examination on the final welds. Visual examination results acceptable.
5. Fabricated and installed supports.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure *** psig Test Temp Amb °F Component Design Pressure 125 psig & 150 psig Temp. 125°F & 150°F

9. Remarks See Attached NV-1 Code Data Report
(Applicable Manufacturer's Data Reports to be attached)
for SW-RV-25 S/N N63038-00-0001

***Swgelock (Threaded Fittings) at 12 & 40 psig
***FWXI-1, 3, 4, 5, 8 & 9 at 128 psig
***FWXI-13 at 12 psig
***FWXI-15 at 40 psig
***FWXI-6, 7, 10 & 11 were not pressurized. Open to the atmosphere.

JCI - Johnson Control Inc.
*PI(1)-ST-X82c
**N63038-00-0001

Plan No. 2-0162

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K O Cowan Plt Tech Mgr 4/24/84 .19 ____
(Owner or Owner's Designee) Title (Date)

K Cowan 4/20/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-23 .1984 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-23-84 J. Bryant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

*Corrected Report 2-2-8

SW-RV-25 PLAN NO. 2-0162

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

DOCUMENT REVIEWED
FEB 11 '81 C.B.WESTOK
BY:
U.E.&C.

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES Q.C.-44D
As Required by the Provisions of the ASME Code Rules

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. JMB-WR Order No. N82783 Contract Date 7/27/78 National Board No. --

2. Manufactured For Washington Public Power Supply System, 3000 George Washington Way Richland, Washington 99352 Order No. 9779-91
Name and Address

3. Owner Washington Public Power Supply System Nuclear Project No. 1
Name and Address

4. Location of Plant Richland, Washington

5. Valve Identification 1-CSS-V99A Serial No. N63038-00-0001 Drawing No. DS-C-A67038 Rev.*A

Type Relief Orifice Size SPL Inch Pipe Size -- Inch Inlet 3/4 Inch Outlet 1 Inch
Safety, Safety Relief, Pilot, Power Actuated

6. Set Pressure (psig) 300 300 F
Rated Temperature

Stamped Capacity 18 GPM Water @ 10 % Overpressure -- Blowdown (psig) 10%

Hydrostatic Test (psig) Inlet 450 Outlet ---
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

	Serial No. Identification	Material Specification Including Type or Grade
a. Castings		
~~xxxx~~ Cylinder	N93002-33-0072	ASME SA351 Gr. CF8M
Bonnet		
b. Bar Stock & Forgings		ASTM A479-79 Type 316
~~xxxxxxxxx~~ Base	N92795-32-0003	ASME SA479 Type 316
Nozzle		
Disc	N93001-31-0109	ASME SA479 Type 316
Spring Washers	N91098-50-1984 N91098-50-1989	ASTM A479-77 Type 410 ASME SA479 Type 410
Adjusting Bolt	N92379-35-0411	ASME SA193 Gr. B6
Spindle K56342-49-0459	N90221-53-0495	ASME SA193 Gr. B6.
c. Spring	NX2704-0027	ASTM A313-76 Type 316
d. Bolting		
e. Other Pieces		

*Valves were originally manufactured and built to DS-C Drawing Rev. 0. Approved Rev. A changed no technical requirements. R.A. Cassard 2-2-81

J. Simms ANI 2-2-81

FOR INFORMATION ONLY

001

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1977 Edition, Addenda Summer 1977, Code Case No. N-100 (1711)
Class 2 (Date)

Date 5/15/80 Signed Crosby Valve & Gage Co. by
(N Certificate Holder)

Our ASME Certificate of Authorization No. 1878 to use the NV symbol expires September 30, 1980.
(Date)

DOCUMENT REVIEWED
FEB 11 '81 C.E. WESTON
BY:
U.E.&C.

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company

Stress analysis report (Class 1 only) on file at

Design specifications certified by[1] Venkatachalam Mani

PE State Washington Reg. No. 15065

Stress report certified by[1] ---

PE State --- Reg. No. ---

[1]Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province, of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 5/22, 1980 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5/22 1980.

Signed John E. Morris (Inspector) Commissions MASS 1266 (Nat'l. Bd., State, Prov. and No.)

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.

FOR INFORMATION ONLY

Plan No. 2-0163

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/10/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Line PI(1)-ST-X84b

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modification	Yes, Class 3
SW-RV-26	Crosby	**	N/A	N/A	N/A	1980	Added	Yes, Class 2

7. Description of Work Modified instrument line as follows:
1. Cut and removed instrument tubing.
2. Installed new tubing and fittings.
3. Installed new relief valves SW-RV-26 in the modified portion of the instrument tubing.
4. Made required welds. Performed visual examination on the final welds. Visual examination results acceptable.
5. Fabricated and installed supports.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 128 psig Test Temp Amb °F Component Design Pressure 125 psig Temp. 125°F

9. Remarks See attached NV-1 Code Data Report
(Applicable Manufacturer's Data Reports to be attached)
for SW-RV-26 S/N N63038-00-0004.

JCI - Johnson Control Inc.
* PI(1)-ST-X84b
** N63038-00-0004

Plan No. 2-0163

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K R Lonan QA Tech Mgr 4/10/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

K Brush 4/10/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington . employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-10- ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-10-84 James Brant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

PLAN NO: 2-0163-

RELIEF VALVE SW-RV-26

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

DOCUMENT REVIEWED
1 '81 C.B.WESTON
87
U.E.&C.

FORM NV-1 FOR SAFE AND SAFETY RELIEF VALVES
As Required by the Provisions of the ASME Code Rules

Q.C.-44D

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. JMB-WR Order No. N82783 Contract Date 7/27/78 National Board No. --

2. Manufactured For Washington Public Power Supply System, 3000 George Washington Way Richland, Washington 99352 Order No. 9779-91
Name and Address

3. Owner WPPSS Nuclear Project No. 4
Name and Address

4. Location of Plant Richland, Washington

5. Valve Identification 4-CSS-V98B Serial No. N63038-00-0004 Drawing No. DS-C-B63038 Rev. *A

Type Relief (Safety, Safety Relief, Pilot, Power Actuated) Orifice Size SPL Inch Pipe Size -- Inch Inlet 3/4 Inch Outlet 1 Inch

6. Set Pressure (psig) 300 300 F (Rated Temperature)

Stamped Capacity 18 GPM Water @ 10 %Overpressure -- Blowdown (psig) 10%

Hydrostatic Test (psig) Inlet 450 Outlet ---
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

	Serial No. Identification	Material Specification Including Type or Grade
a. Castings		
Cylinder	N93003-33-0077	ASME SA351 Gr. CF8M
Bonnet		
b. Bar Stock & Forgings		
Base	N92795-32-0004	ASTM A479-79 Type 316 ASME SA479 Type 316
Nozzle		
Disc	N93001-31-0033	ASME SA479 Type 316
	N91098-50-2018	
Spring Washers	N91098-50-2005	ASME SA479 Type 410
Adjusting Bolt	N92379-35-0413	ASME SA193 Gr. B6
Spindle KSG342-49-0458	N90221-53-0494	ASME SA193 Gr. B6
c. Spring	NX2704-0031	ASTM A313-77 Type 316
d. Bolting		
e. Other Pieces		

*Valves were originally manufactured and built to DS-C Drawing Rev. C. Approved Rev. A changed no technical requirements. R.A. Pisano 2-2-81
J.S. Mosman AVI 2-2-81

00004

ADDITIONAL INFORMATION ON FILE

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1977 Edition, Addenda Summer 1977 (Date), Code Case No. N-100 (1711) Class 2

Date 5/21/80 Signed Crosby Valve & Gage Co. (N Certificate Holder) by J. J. Keenan

Our ASME Certificate of Authorization No. 1878 to use the NV symbol expires September 30, 1980 (Date).

DOCUMENT REVIEWED
FEB 1 4 81 U.S. WESTG
BY: _____
U.E.&C.

CERTIFICATION OF DESIGN

Design information on file at Crosby Valve & Gage Company

Stress analysis report (Class 1 only) on file at _____

Design specifications certified by[1] Venkatachalam Mani

PE State Washington Reg. No. 15065

Stress report certified by[1] ---

PE State --- Reg. No. ---

[1]Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 6/6, 1980 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/6 1980.

Signed John E. Mallen (Inspector). Commissions MASS 1266 (Nat'l. Bd., State, Prov. and No.)

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.

FOR INFORMATION ONLY

Plan No. 2-0164

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/4/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Name) (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Low Pressure Core Spray - (LPCS)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W '80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LPCS(1)-4	WPPSS	LPCS(1)-4	N/A	N/A	N/A	1983	Modification	Yes, Class 1

7. Description of Work Modification of support structure for hanger LPCS-64. Code work involved welding of hanger bracket to existing steel. No new Code base material added. The completed weld was visually examined. Visual examination of weld acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System

Plan No. 2-0164

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed. K J Conan R C Tschirgi 4/3/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

K Smith 4/3/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-4 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-4-84 James Brent (Inspector) Commissions 6265 W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0165

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/16/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600, Richland, WA 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Instrument Line PI(1)-ST-MSLC-PT-10A, 10C and 10D

5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1983	Modified	Yes, Class 2

7. Description of Work: Modified instrument line as follows:

1. Cut and removed instrument tubing.
2. Installed new tubing and fittings.
3. Made required welds.
4. Performed PT examination on the final welds. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 1010 psig Test Temp Amb °F Component Design Pressure 955 psig Temp. 540°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

PI(1)-ST-MSLC-PT-10A, 10C and 10D

Plan No. 2-0165

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K D Konen Plt Tech Mgr 4/16/84 ,19
(Owner or Owner's Designee) Title (Date)

K Gruen 4/14/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-16, 1984 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-16-84 James Brant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0166

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/16/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System MAIN STEAM

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS(18)-2-2	WPPSS	*	N/A	N/A	N/A	1983	Modified	Yes, Class 3

7. Description of Work: Modified Support MSRV-2A-2 in accordance with the design drawing. Final welds were visually examined. Visual examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ None
Test Pressure _____ psi Test Temp. _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*MS(18)2-2-P1
WPPSS - Washington Public Power Supply System

Plan No. 2-0166

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed D Conner Rel't Tech Mgr 4/6/84 ,19
(Owner or Owner's Designee) Title (Date)

V Swets 4/14/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-16 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-16-84 James Brent (Inspector) Commissions 6265J (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0167

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/16/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Service Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980; W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SW(7)-2	WPPSS	SW(1)-2-P1	N/A	N/A	N/A	1983	Modification	Yes, Class 3

7. Description of Work: Modified Support SW-1525-16 in accordance with the design drawings. Final welds were visually examined. Visual examination results acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp. _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

Plan No. 2-0167

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Plt Tech Mgr (Title) 4/16/84 (Date) ,19 ____

K Swab 4/14/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-16, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-16-84 [signature] (Inspector) Commissions 1265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0168

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 2/7/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA 99352 (Address)

4. Identification of System Residual Heat Removal (RHR)

5. (a) Applicable Construction Code Sect. III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda; Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-V-82	BW	16693	N/A	N/A	N/A	1977	Replacement	Yes, Class 1

7. Description of Work Body to bonnet seal was cut for valve RHR-V-82 S/N 16693 to remove damaged bonnet and stem assembly. The damaged bonnet and stem assembly were replaced. The replacement bonnet and stem assembly was obtained from spare valve S/N 16695. The work was performed as follows:

1. Cut body to bonnet seal weld on valve RHR-V-82, S/N 16693 and removed damaged bonnet and stem assembly.
2. PT examined the body seal weld prep area. PT examination results acceptable.
3. Cut body to bonnet seal weld on spare valve S/N 16695 and removed the bonnet and stem assembly.
4. PT examined the bonnet seal weld area. PT examination results acceptable.
5. Installed new stem assembly. Screwed new bonnet into valve body and made body to bonnet seal weld.
6. PT examined seal weld. PT examination results acceptable.
7. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 18 psi Test Temp Amb °F Component Design Pressure 3600 psig Temp. 100°F

9. Remarks NPV-1 Code Data Report for spare valve S/N 16695 from which the replacement bonnet and stem assembly was removed and installed in valve RHR-V-82, S/N 16693. NPV-1 Code Data Report for spare valve S/N 16695 is attached.
(Applicable Manufacturer's Data Reports to be attached)

BW - Borg Warner

Plan No. 2-0168

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed [signature] K.D. Lowan (Owner or Owner's Designee) Plt. Tech Mgr Title 7/3/84 (Date) .19 ____

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of Province~~ of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the replacement (Repair(s) or Replacement(s)) described in this Report on 2-7, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-7-84 [signature] (Inspector) Commissions 7486 W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0168

WBG BR 215-14525 03154

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. Order No. 47713
(Name & Address of Manufacturer)

2. Manufactured for Bovee & Crail/G.E.R.I. P.O. Box 1040, Richland, Washington 99352 Order No. 215-3261Q
(Name and Address)

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/N 76870, 2 Inch Y Type Globe Valve, CS
Serial Numbers 16689 Thru 16695 (7 Valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 76870 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 1

Edition 1971, Addenda Date Winter '73, Case No.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a)	Castings			
	Disc - Code 1N75	Stellite #6		
	Casting - 71238	per NMS 71043	Rex Precision	
	Machined- 71239		NV Division	
	Other Parts			
	Stem - Code 1K35; 1M04-	SA564 Type 630		
	Bar Stock		Jorgensen Steel	
	Machined - 73444		NV Division	
(b)	Forgings			
	Body - Code 1L57-	SA 105		
	Forging - 71269		Compton Forge	
	Machined - 71276-11		NV Division	
	Assembly - 71276-13		NV Division	
	Bonnet - Code 1M89 -	SA 105		
	Forged Stock		Jorgensen Steel	
	Machined - 71279-11		NV Division	
	Assembly - 71279		NV Division	

RECEIVED
FEB 17 1982
BECHTEL QUALITY CONTROL
BY:

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in Items 1, 2, 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.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
(d)	Other Parts			

8. Hydrostatic test 5400-5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca.
Stress analysis report on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, CA
Design specifications certified by David J. Murphy (1) Prof. Eng. State Wash. Reg. No. 12542
Stress analysis report certified by Byron Leonard Jr. (1) Prof. Eng. State CA Reg. No. E123
(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date January 26 19 77 Signed Nuclear Valve Div. of Borg Warner (Manufacturer) By W. H. C. Kramer

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 Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on January 26 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 26 19 77

(Inspector) Commissions (National Board, State, Province and No.)

Plan No. 2-0169.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/23/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Residual Heat Removal (RHR)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 30

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(58)-2	WPPSS	*	N/A	N/A	N/A	1983	Modification**	Yes. Class 1

7. Description of Work Installed "U"-bolt for new Support RHR-1051S for process line RHR(58)-2. "U"-bolt installation acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*RHR(1)-2A-P1
**Addition of new Support RHR-1051S
WPPSS - Washington Public Power Supply System

Plan No. 2-0169

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Dist Tackling 4/20/84 .19__
(Owner or Owner's Designee) Title (Date)

K. Swyers 4-20-84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-23 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-23-84 J. Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0170

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/23/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Hydraulic System (HY)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HY(1)-6S	WPPSS	*	N/A	N/A	N/A	1983	Modification**	Yes, Class 2

7. Description of Work Installed "U"-bolt for new Support HY-4236-111 for process line HY(1)-6S. "U" bolt installation acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*HY(1)-6S-B-P1
**Addition of new Support HY4236-111
WPPSS - Washington Public Power Supply System

Plan No. 2-0170

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K D Cowan (Owner or Owner's Designee) Plt Tech Mgr (Title) 4/20/84 (Date) ,19 ____

K S Hall 4/20/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-23 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-23-84 J. Brant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0171

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/10/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit
Hanford, Benton County, WA 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA (Address)

4. Identification of System Containment Instrument Air (CIA)

5.(a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CIA(3)-2	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes. Class 2

7. Description of Work Modified flange joints at flex hoses for CIA-FLX-1G, 1J, 1K, 1M, 1P, and 1D as follows:

1. Machined weld neck flanges (to convert into spacers) in accordance with the design drawings.
2. PT examined the machined surfaces. PT examination results acceptable.
3. Installed spacers (machined flanges) in each of the flange joints. Assembled and torqued each of the flange joints by utilizing new stud material.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure ** psig Test Temp Amb °F Component Design Pressure 300 psig Temp. 340°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

**Flex Hose NO.	**Test Pressure
CIA-FLX-1P	91PSIG
CIA-FLX-1D	101PSIG
CIA-FLX-1M	99PSIG
CIA-FLX-1J	101PSIG
CIA-FLX-1K	102PSIG
CIA-FLX-1G	100PSIG

WPPSS - Washington Public Power Supply System
*CIA(3)-2-P1

Plan No. 2-0171

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K D Cowan Plt Technician 4/6/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

K Swyt 4/10/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington , employed by Lumbermen's Mutual Casualty Co of Illinois have inspected the modification described in this Report on 4-10 ,19 84
(Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-10-84 James Brant Commissions 6265 W
(Inspector) (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0172

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/25/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Seal Loop Piping

5.(a) Applicable Construction Code ASME III 19 71 Edition, S73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SEAL LOOP A*	AP&C	78-337-3	5582	N/A	N/A	1978	Modification	Yes, Class 2
SEAL LOOP B*	AP&C	78-338-3	5583	N/A	N/A	1978	Modification	Yes, Class 2
CAC-V-322A	BW	54023	N/A	N/A	N/A	1980	Added	Yes, Class 2
CAC-V-322B	BW	54026	N/A	N/A	N/A	1980	Added	Yes, Class 2

7. Description of Work Seal loop piping for Hydrogen Recombiners CAC-HR-1A and CAC-HR-1B was modified as follows -

1. Cut existing seal loop piping.
2. Installed new pipe and fittings.
3. Installed new valves CAC-V-322A and CAC-V-322B.
4. Made required socket welds.
5. Performed PT examination on final completed socket welds. PT examination results acceptable.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 50 psig Temp. 400°F

9. Remarks See attached NPV-1 Code Data Reports (Applicable Manufacturer's Data Reports to be attached)
for valve CAC-V-322A, S/N 54023 and
CAC-V-322B S/N 54026.

AP&C - Air Products and Chemical Inc.
BW - Borg-Warner
*Seal loop piping for Hydrogen Recombiners CAC-HR-1A and CAC-HR-1B

Plan No. 2-0172

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] P/W Tech Mgr 4/24/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

K Ewen 4/24/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-25 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-25-84 J. Brant (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

PLAN NO. 2-0172

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)
2. Manufactured for Bovee & Crail/G.E.R.I., P.O. Box 1040, Richland, Washington 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation Richland, Washington WPPSS Hanford #2 Job Site
(Name and Address)
4. Pump or Valve Gate Valve. Nominal Inlet Size 1 1/2 (inch) Outlet Size 1 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#	54023 thru 54026	N/A	76720-1	2	N/A	1980
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. The valves are designed to handle a fluid media which includes steam, water condensate, borated water, etc., associated with a PWR and BWR. The
(Brief description of service for which equipment was designed)
temperature pressure rating of the media is stated below.

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

0E69

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate-Code 4A83	SA351 CF8M	Rex Precision	
(b) Forgings			
Body-Code 1B15	SA182 F316	Reisner	
1B17			
Bonnet-Code 4D48	SA182 F316	Crucible	

(1) For manually operated valves only.

WGG BR 215-14547

* 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) Boring N/A			
(d) Other Parts N/A			

9. Hydrostatic test 5400 psi. Disc Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974.
Addenda Summer '75 (Date), Code Case No. N/A Date 8/5/80

Signed Nuclear Valve Div., Borg Warner (N Certificate Holder) by J McAninch

Our ASME Certificate of Authorization No. N-1254 to use the N (N) symbol expires 10/27/81 (Date).

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) David J. Murphy

PE State Washington Reg. No. 12542

Stress analysis certified by (1) N/A

PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Insurance Co. of North America of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 8/7 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 8/7, 19 80

Inspector

Commissions NB-CA-

(Nat'l Bd., State, Prov. and No.)

2 1 2 7 6 U 2 0 1

Plan No. 2-0172

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/25/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA (Name)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)
4. Identification of System Containment Atmosphere Control (CAC)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CAC(21)-1	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2
CAC(21)-1	WPPSS	**	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Containment Atmosphere Control (CAC) seal loop piping for hydrogen recombiners was modified as follows -

1. Cut existing seal loop piping.
2. Installed new pipe and fittings.
3. Made required socket welds.
4. Performed PT examination on final completed socket welds. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 35.2 psig Test Temp Amb °F Component Design Pressure 18 psig Temp. 150°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*CAC(21)-1A-P1
**CAC(21)-1B-P1
WPPSS - Washington Public Power Supply System

Plan No. 2-0172

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] [signature] 4/24/84 ,19 ____
(Owner or Owner's Designee) Title (Date)

K Cuyk 4/24/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-25 ,1984 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-25-84 J. Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0173

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/23/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)

4. Identification of System Residual Heat Removal (RHR)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(1)-2B	WPPSS	*	N/A	N/A	N/A	1983	Modification**	Yes, Class 2

7. Description of Work Installed "U"-bolt for new Support RHR-1050S for process line RHR(1)-2B. "U"-bolt installation acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*RHR(1)-2B-P1
**Addition of new Support RHR-1050S
WPPSS - Washington Public Power Supply System

Plan No. 2-0173

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Rlt Tech Mgr (Title) 4/20/84 (Date), 19 ____

K Smith 4/20/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-23, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-23-84 James Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0175

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/4/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 George Washington Way, Richland, WA. (Address)
4. Identification of System Containment Purge Supply (CSP)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CSP(1)-1A	WPPSS	*	N/A	N/A	N/A	1983	Repair	Yes, 2

7. Description of Work Repaired bent process line CSP(55)-1-3 as follows-
1. Removed bent process line by cutting.
2. Welded in 45° elbow fitting.
3. PT examined the completed welds. PT examination results acceptable.
4. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 35 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 340°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*CSP(1)-1A-P1
WPPSS-Washington Public Power Supply System

Plan No. 2-0175

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed R Konan (Owner or Owner's Designee) QC Tech Mgr Title 4/3/84 (Date) ,19 ____

K Such 4/3/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 4-4 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-4-84 James Brent (Inspector) Commissions 1265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 4/23/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600, Richland, WA 99352 (Address)
4. Identification of System Containment Purge Supply (CSP)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases none
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CSP(1)-1A	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified process line to reposition valves CSP-V-96 and CSP-V-97. Modification work was performed as follows -

1. Cut process line.
2. Repositioned valves CSP-V-96 and CSP-V-97.
3. Made required socket welds.
4. Performed PT examination on final completed socket welds. PT examination results acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 35 psig Test Temp Amb °F Component Design Pressure 45 psig Temp. 100°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*CSP(1)-1A-P2
WPPSS - Washington Public Power Supply System

Plan No. 2-0176

CERTIFICATE OF COMPLIANCE

certify that the statements made in this report are correct and this modification conforms to Section XI of the
ME Code.

Signed K.D. Cowan (Owner or Owner's Designee) Rel Tech Mgr (Title) 4/20/84 (Date) ,19 ____

K. Cowan 4/20/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 4-23 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-23-84 J. Brent (Inspector) Commissions 6265 W (State ~~or Province~~, National Board)

ote: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. x 11 in., 2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered nd the number of sheets is recorded at the top of this form.

Plan No. 2-0177

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA. 93352 (Address) Sheet 1 of 1

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250 Repair Organization P.O No., Job No., etc.
P.O. Box 600 Richland, WA. 99352 (Address)

4. Identification of System Containment Supply Purge System (CSP)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980 W80 Addenda, Code Cases N-308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CSP(1)-1A	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified pipe support CSP-1001-11. This pipe support was removed from its original location and reinstalled at a new location. Installation of NF item (U-bolt only) was acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

* CSP(1)-1A-P1
WPPSS - Washington Public Power Supply System

Plan No. 2-0177

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K D Cone (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date) ,19 84

K Swan 10/15/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H. Brent (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0179

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 10/31/94
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. 99352 (Name) (Address)

3. Work Performed by Bechtel Power Corporation (Name) C-250
P.O. Box 600 Richland, WA. 99352 (Address) Repair Organization P.O No., Job No., etc.

4. Identification of System Containment Atmosphere Control System (CAC)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CAC(21)-1A	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2
CAC(21)-1B	WPPSS	**	N/A	N/A	N/A	1983	Modification	Yes, Class 3

7. Description of Work Installed pipe supports for modified hydrogen recombiner piping. The installation of NF items (U-bolts only) were acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

*CAC(21)-1A-P1
**CAC(21)-1B-P1
WPPSS - Washington Public Power Supply System

Plan No. 2-0179

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K D Cowan (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/24 (Date) ,19 84

K Swab 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30 ,19 84

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James M Brent (Inspector) Commissions 6265 W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0180

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 11/1/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 8

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)

4. Identification of System Control Room Chiller Piping System

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W80 Addenda, Code Cases N 308

6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SW(2)-2	WPPSS	SW(2)-2-P1	N/A	N/A	N/A	1983	Modification	Yes, Class 3
SW(1)-2	WPPSS	SW(1)-2-P1	N/A	N/A	N/A	1983	Modification	Yes, Class 3
SW(21)-2	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 3
SW(22)-2	WPPSS	**	N/A	N/A	N/A	1983	Modification	Yes, Class 3

7. Description of Work See attached Supplementary Sheets 2 of 8 thru 8 of 8.

Note: See separate NIS-2 Form for Chiller Unit modifications.

***See attached Supplementary Sheets 3 of 8 and 4 of 8

*** 8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks See attached Supplementary Sheets 4 of 8 thru 8 of 8.
(Applicable Manufacturer's Data Reports to be attached)

* SW(21)-2-P1
** SW(21)-2-P1
WPPSS - Washington Public Power Supply System

Plan No. 2-0180

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K.J. Cowan Plant Tech. Manager 11/1, 19 84
(Owner or Owner's Designee) Title (Date)

K.J. Cowan 11/1/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermens Mutual Casualty Co. of Illinois, have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 11-1, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-1-84 James Brent (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental-sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0180

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 11/1/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 2 of 8

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)

4. Identification of System Control Room Chiller Piping System

7. Description of Work (continued from page 1): NRC regulatory requirements associated with operating license for WNP-2 required the Supply System to install redundant Seismic Category 1 Control Room Chillers for control room HVAC system. Redundant control room chiller system was installed and tested in accordance with ASME Section XI Plan No. 2-0180. This NIS-2 form covers the modifications to the existing control room chiller piping system. Note that the Chiller Units CCH-CR-1A and CCH-CR-1B were altered in accordance with ASME Section XI Plan No. 2-0180 also and are covered under separate NIS-2 form.

Modifications: The existing control room chiller piping system loops A and B were modified in accordance with the design drawings included in ASME Section XI Plan No. 2-0180. The existing service water system was modified to provide both condensing and evaporation side piping loops for the new chiller units. The modification work was performed as follows:

A. Fabrication of Piping Subassemblies. Bechtel Power Corporation fabricated piping subassemblies at WNP-2 plant site. These piping subassemblies were fabricated in accordance with ASME Section III Code Class 3, 1971 Edition with Winter 1973 Addenda. Each piping subassembly was NPT Code stamped and NPP-1 Code Data Reports were issued.

B. Field Work. The following field work was performed during modification of control room chiller piping system, loops A and B.

1. Installed NPT Code stamped piping subassemblies by welding or by mechanical joints (flanged).
2. Installed N Code stamped valves by welding or by mechanical joints (flanged).
3. Installed N Code stamped pumps by welding in flanges (mechanical joints).
4. Installed NPT Code stamped flex hoses by welding in flanges (mechanical joints).
5. Installed NV Code stamped relief valves by welding in flanges (mechanical joints).
6. Installed piping supports.
7. Installed loose material (material not provided as NPT Code stamped piping subassemblies) by welding or by mechanical joints (flanged or threaded).
8. Installed N Code stamped Control Room Chiller Units by welding in flanges (mechanical joints).
9. Visually examined the final welds and mechanical joints. Visual examination results acceptable.
10. MT examined all 6" and over piping circumferential welds. MT examination results acceptable.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM Plan No. 2-0180

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) 3000 George Washington Way, Richland, WA. 99352 (Address) Date 11/1/84 Sheet 3 of 8

2. Plant WNP-2 (Name) Hanford, Benton County, WA. 99352 (Address) Unit N/A

3. Work Performed by WPPSS (Name) 3000 Geo. Wash. Way, Richland, WA. (Address) WPPSS Repair Organization P.O No., Job No., etc.

4. Identification of System Control Room Chiller Piping System

B. Field Work (continued from page 2).

11. Base material, filler material and MT examination acceptance criteria met the original construction code requirements of ASME Section III, Code Class 3, 1971 Edition with Winter 1973 Addenda.

C. Pressure Test: Performed system pressure tests on the modified portions of control room chiller piping system. Service water (condensing) side of the control room chiller piping system was hydrostatically tested at 340 psig (1.1 X 309 psig design pressure). The chilled water (evaporated) side of the control room chiller piping system was hydrostatically tested at 110 psig (1.1 X 100 psig design pressure). All welded and mechanical joints were inspected during system pressure tests. No evidence of leakage was observed during the pressure tests. The pressure test results, including the actual test pressures and test temperatures are included in ASME Section XI Plan No. 2-0180.

D. Documentation: The following documents were generated, reviewed and/or revised to document the modification of control room chiller piping system:

1. Performed suitability of modification as required by IWA-7220 of ASME Section XI.
2. Revised and reconciled certified design specification.
3. Reviewed design calculations.
4. Evaluated over pressure protection.
5. Performed engineering reconcilation for valves, pumps, and relief valves recieved from other plant sites.
6. Performed equipment qualification evaluations for valves, pumps, and relief valves recieved from other plant sites.

8. Test Conducted (continued from page 1):

Component Design Pressures

Service Water Side Pressure - 309 psig at 150° F.
Chilled Water Side Pressure - 100 psig at 100° F.

Test Pressures

Service Water Side Test Pressure - 340 psig
Chilled Water Side Test Pressure - 110 psig

WASHINGTON PUBLIC POWER SUPPLY SYSTEM Plan No. 2-0180
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System Date 11/1/84
3000 George Washington Way, Richland, WA. 99352 Sheet 4 of 8
(Name) (Address)

2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA. 99352
(Name) (Address)

3. Work Performed by WPPSS WPPSS
(Name) Repair Organization P.O. No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA.
(Address)

4. Identification of System Control Room Chiller Piping System

8. Test Conducted (continued from page 3):

Test Temperatures

Service water side and chilled water side tests were conducted at test temperature not less than 50° F.

Note - The pressure test results including the actual test pressures and test temperatures are included in ASME Section XI Plan No. 2-0180.

The chiller units were hydrostatically tested separately and are covered under separate NIS-2 form.

9. Remarks (continued from page 1): The following code stamped components were installed during the modification of control room chiller piping system, loops A and B. The Code Data Reports pertaining to these components are included in ASME Section XI Plan No. 2-0180.

A. Piping Subassemblies

CODE STAMP SERIAL NO.	PIECE MARK NO.	CODE STAMP SERIAL NO.	PIECE MARK NO.
1	CCH-107-1A	14	SW-505-8
2	CCH-107-1	15	SW-504-1
3	CCH-107-2	16	SW-504-2
4	CCH-107-4	17	SW-504-3
5	CCH-107-6	18	SW-504-4
6	CCH-107-7	19	SW-504-5
7	CCH-107-3	20	SW-504-6
8	SW-505-1	21	SW-504-7
9	SW-505-2	22	SW-506-1
10	SW-505-3	23	SW-506-2
11	SW-505-5	24	SW-506-3
12	SW-505-6	25	SW-506-4
13	SW-505-7	26	SW-506-6

WASHINGTON PUBLIC POWER SUPPLY SYSTEM Plan No. 2-0180

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 11/1/84

3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 5 of 8

2. Plant WNP-2 (Name) Unit N/A

Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.

3000 Geo. Wash. Way, Richland, WA. (Address)

4. Identification of System Control Room Chiller Piping System

A. Piping Subassemblies (continued from page 4)

CODE STAMP SERIAL NO.	PIECE MARK NO.	CODE STAMP SERIAL NO.	PIECE MARK NO.
27	SW-506-7	51	CCH-101-5
28	SW-506-8	52	CCH-101-6
29	CCH-1001-1	53	CCH-103-1
30	VOID CCH-1001-F1-3B	54	CCH-103-2
		55	CCH-103-3
31	VOID CCH-1001-F1-3A	56	CCH-103-4
32	VOID CCH-1001-F1-3C	57	CCH-103-5
		58	CCH-103-6
33	SW-510-1	59	CCH-103-7
34	SW-510-2	60	CCH-103-8
35	SW-510-3	61	CCH-105-1
36	SW-510-4	62	CCH-105-2
37	SW-510-5	63	CCH-105-3
38	SW-510-6	64	CCH-109-1
39	SW-510-7	65	CCH-109-2
40	SW-510-8	66	CCH-109-3
41	CCH-100-1	67	CCH-109-5
42	CCH-100-2	68	CCH-109-6
43	CCH-100-3	69	CCH-109-7
44	CCH-100-5	70	CCH-109-8
45	CCH-100-6	71	SW-507-1
46	CCH-100-7	72	SW-507-2
47	CCH-101-1	73	SW-507-3
48	CCH-101-2	74	SW-507-6
49	CCH-101-3	75	CCH-108-1
50	CCH-101-4	76	CCH-108-2

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code, Section XI

Plan No. 2-0180

1. Owner Washington Public Power Supply System (Name) Date 11/1/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 6 of 8
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O. No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Control Room Chiller Piping System

A. Piping Subassemblies (continued from page 5)

CODE STAMP SERIAL NO.	PIECE MARK NO.	CODE STAMP SERIAL NO.	PIECE MARK NO.
77	CCH-108-3	97	SW-509-1
78	CCH-108-4	98	SW-509-2
79	CCH-108-5	99	SW-509-3
80	CCH-104-1	100	SW-509-4
81	CCH-104-2	101	SW-509-5
82	CCH-104-3	102	SW-509-6
83	CCH-104-4	103	SW-509-7
84	CCH-104-5	104	SW-509-8
85	CCH-104-6	105	SW-509-9
86	CCH-104-8	106	SW-508-1
87	CCH-104-9	107	SW-508-2
88	CCH-104-10	108	SW-508-3
89	CCH-104-11	109	SW-508-4
90	CCH-104-12	110	SW-508-5
91	CCH-104-13	111	SW-508-6
92	CCH-104-14	112	SW-508-7
93	CCH-1000-1	113	SW-508-8
94	VOID CCH-1000-F1-2	114	SW-508-9
95	VOID CCH-1000-F1-3	115	CCH-104-4A
96	VOID CCH-1000-F1-4		

WASHINGTON PUBLIC POWER SUPPLY SYSTEM — Plan No. 2-0180

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 11/1/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 7 of 8
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)
4. Identification of System Control Room Chiller Piping System

B. Chillers

Tag No.	Serial No.	National Board No.
CCH-CR-1A	2510	55256
CCH-CR-1B	2511	55257

C. Pumps

Tag No.	Serial No.	National Board No.
CCH-P-1A	3196MT	427
CCH-P-1B	3196MT	428

D. Relief Valves

Tag No.	Serial No.
CCH-RV-2A	N63032-00-0046
CCH-RV-2B	N63032-00-0045

E. Flex Hoses

Tag No.	Serial No.
CCH-FLX-1A	001
CCH-FLX-1B	002
CCH-FLX-2A	001
CCH-FLX-2B	002

WASHINGTON PUBLIC POWER SUPPLY SYSTEM — Plan No. 2-0180

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 11/1/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 8 of 8

2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. 99352 (Address)

3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O. No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA. (Address)

4. Identification of System Control Room Chiller Piping System

F. Valves (Gates, Globes, Checks, Plugs, etc.)

Tag No.	Serial No.	Tag No.	Serial No.
CCH-V-704A	13820	SW-TCV-15A	9032917
SW-V-898	13894	CCH-V-69	16941
SW-V-227A	N0545 A	CCH-V-704B	13870
CCH-V-63	16939	CCH-V-65	13725
CCH-V-50	13743	CCH-V-66	23441
SW-V-856A	12669	SW-V-227B	70499-5
SW-V-852A	13832	SW-V-823B	N0364D
SW-V-868	13451	SW-V-822B	70499-7
SW-V-224A	70499-6	CCH-V-28A	16978
SW-V-223B	70544-12	CCH-V-28B	16955
SW-V-905	66695	CCH-V-29A	17086
SW-V-866	13817	CCH-V-29B	17091
SW-V-223A	70544-11	SW-V-833A	16980
SW-V-826B	70499-8	SW-V-833B	17072
SW-TCV-15B	9032918	SW-V-834A	16962
SW-V-831B	13513	CCH-V-14B	26728
SW-V-830B	13355	CCH-V-13B	53492
SW-V-861	22482	CCH-V-42B	13387
SW-V-862	12660	CCH-V-3B	89770 H-2
SW-V-902	16654	CCH-V-68	13644
SW-V-903	73438	CCH-V-67	13766
SW-V-832B	13917	CCH-V-47	13901
SW-V-867	13697	CCH-V-702B	13203
SW-V-856B	13430	CCH-V-62	66641
SW-V-852B	73419	CCH-V-46	13755
SW-V-871	13904	CCH-V-3A	89770 H-1
CCH-V-2A	N0502 G	SW-V-897	73418
CCH-V-710A	13809	SW-V-899A	13784
CCH-V-43	22684	SW-V-896A	66698
CCH-V-14A	24557	SW-V-226A	70544-13
CCH-V-13A	53493	SW-V-225B	3N-324
CCH-V-42A	13932	SW-V-904	13672
SW-V-865	54220	CCH-V-58	13695
SW-V-864	13792	SW-V-896B	22495
SW-V-832A	13907	SW-V-899B	12664
SW-V-831A	66607	SW-V-226B	70544-14
SW-V-830A	13862	CCH-V-2B	N0502 H
SW-V-826A	N0545 B	CCH-V-710B	12717
SW-V-901	54260	CCH-V-57	13472
SW-V-900	13739	SW-V-834B	16946
		CCH-V-702A	54268

Plan No. 2-0203

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 10/31/94
3000 George Washington Way, Richland WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA (Address)
3. Work Performed by WPPSS (Name) WPPSS Organization P.O No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA 99352 (Address)
4. Identification of System Residual Heat Removal System (RHR)
5. (a) Applicable Construction Code ASME III 1977 Edition, W77 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-HX-2A	Ametek	79283	598	N/A	N/A	1980	Repaired	Yes, Class 2

7. Description of Work Repaired weld joint between the tube out-let and the shell for RHR-HX-2A. The repair work was performed as follows:

1. PT examines the weld to locate pin hole leak point.
2. Ground out the weld defects.
3. PT examined the ground out areas.
4. Repaired the ground out areas by welding.
5. PT examined the final repair weld. PT examination results acceptable.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Test Pressure 260 psig Test Temp Amb °F Component Design Pressure 600 psig Temp. 400°F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

WPPSS - Washington Public Power Supply System

Plan No. 2-0203

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed K D Cross Plant Tech. Manager 10/29 19 84
(Owner or Owner's Designee) Title (Date)

K S W 10/17/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair (Repair(s) or Replacement(s)) described in this Report on 10/30 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James H Brent (Inspector) Commissions 6265 W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System Date 10/31/84
   3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
   Hanford, Benton County, WA. 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS
   3000 Geo. Wash. Way, Richland, WA (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System Residual Heat Removal (RHR)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, Code Cases None
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W80 Addenda, Code Cases N-308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Seal Cooler Piping	*	*	N/A	N/A	N/A	*	Modification	Yes, Class 2

7. Description of Work Added flange joint between pump RHR-P-2B seal cooling piping to seal cooler RHR-HX-2B. The modification work was performed as follows:

1. Cut seal cooling piping between RHR-P-2B and RHR-HX-2B.
2. Installed 300# raised faced socket weld flange.
3. Made required socket welds.
4. PT examined final socket welds. PT examination results acceptable.
5. Bolted up the flange joint and torqued the bolting material to the required torque value.
6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Test Pressure 240 psig Test Temp Amb. °F Component Design Pressure 500 psig Temp. 480°F
9. Remarks None
   (Applicable Manufacturer's Data Reports to be attached)

*Seal cooler and seal cooling piping was replaced by Supply System in accordance with ASME Section XI plan No. 2-0004
WPPSS - Washington Public Power Supply System

Plan No. 2-0204

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed K O'Conor (Owner or Owner's Designee) Plant Tech. Manager (Title) 10/29 (Date) 84

10/31/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington, D.C. employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 James L Breed (Inspector) Commissions 6265W (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0205

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 Unit N/A
Hanford, Benton County, WA 99352 (Name) (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O. No., Job No., etc.
3000 Geo. Wash. Way, Richland, WA 99352 (Address)
4. Identification of System Residual Heat Removal (RHR)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W80 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR(1)-2A	WPPSS	*	N/A	N/A	N/A	1983	Modification	Yes, Class 2

7. Description of Work Modified piping by replacing existing globe valve RHR-V-85 with new stop check valve. The modification work was performed as follows:

1. Cut out existing globe valve RHR-V-85A.
2. Installed new stop check valve S/N 24985 and new piping and fitting material.
3. Made required welds.
4. PT examined final welds. PT examination results were acceptable.
5. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Test Pressure 250 psi g Test Temp 82 °F Component Design Pressure 500 psig Temp. 358°F

9. Remarks See attached NPV-1 code data report for new stop check valve installed
(Applicable Manufacturer's Data Reports to be attached)
S/N 24985

*RHR(1)-2A-P1
WPPSS - Washington Public Power Supply System
**Performed pressure test at 1.25x design pressure of 200 psig (250 psig) in lieu of 1.25 x design pressure of 500 psig (625 psig). The hydro pressure of 625 psig would have overpressurized the system due to system configuration and valve line up. Performed additional inservice leak test at normal operating pressure.

Plan No. 2-0205

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plant Tech. Manager 10/24 ,19 84
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington employed by Lumbermen's Mutual Casualty Co of Illinois have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 10/30 ,1984 and state that to the best of my knowledge and belief, this Repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 [signature] (Inspector) Commissions 6265W (State or ~~Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

PLAN NO. 2-0205.

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. 215-3261Q
(Name and Address)

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div. P/N 76910, 3 Inch Y Stop Check Valve, CS 1500#
Serial Numbers 24985 thru 24988
(Brief description of service for which equipment was designed)

(a) Drawing No. 76910 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 QB870

Edition 1974, Addenda Date Summer '75, Case No. N/A

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a)	Castings			
	Disc - Code 1P67-	Stellite #6 per NMS 71043	Rex Precision	
(b)	Forgings			
	Body - Code 1M46-	SA 105	Pacific Forge	
	Bonnet - Code 1M52, 1H89-	SA 105	Compton Forge & Jorgensen Steel	

REVIEWED
MAR 12 1982
BECHTEL QUANTY CONTROL
BY:

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items, 1, 2, 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.

FOR INFORMATION ONLY

WBG BR 215-14925

2

	Mark No.	Material Spec. No.	Certificate	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

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.

Nuclear Valve Division

Date January 31 19 78 Signed of Borg-Warner (Name of 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 or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the equipment described in this Data Report on January 31 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 January 31 19 78

[signature] Commissions CA-1275

(Inspector) (National Board, State, Province and No.)

Manuel B. Diana

WBG BR 21 14925 WBG P 21 925 FOR INFORMATION ONLY

Plan No. 2-0206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 11/20/84
3000 George Washington Way, Richland, WA. 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
Hanford, Benton County, WA. (Address)
3. Work Performed by WPPSS (Name) WPPSS
3000 Geo. Wash. Way, Richland, WA (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Instrument Lines PI(1)-4S-X86a and PI(1)-ST-X86a
5. (a) Applicable Construction Code ASME III 19 74 Edition, W75 Addenda, Code Cases None
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, W80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	JCI	*	N/A	N/A	N/A	1982	Modification	Yes, Class 2 & 3

7. Description of Work Modified instrument lines to meet the required slope. The modification work was performed as follows:

1. Removed portion of the existing instrument tubing.
2. Installed rerouted instrument tubing material.
3. Made required field welds.
4. PT examined the final field welds. PT examination results were acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ None (See Note 1)
Test Pressure _____ psi Test Temp _____ °F Component Design Pressure _____ Temp. _____

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

Note 1 - Modified instrument line operates at atmospheric pressure, therefore, pressure test to confirm pressure boundary integrity was not performed.

*PI(1)-4S-X86a and PI(1)-ST-X86a
JCI - Johnson Control, Inc.
WPPSS - Washington Public Power Supply System

Plan No. 2-0206

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this modification conforms to Section XI of the ASME Code.

Signed [signature] Plant Tech. Manager 11/14/84
(Owner or Owner's Designee) Title (Date)

[signature] 11/14/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Washington, employed by Lumbermen's Mutual Casualty Co. of Illinois, have inspected the modification (Repair(s) or Replacement(s)) described in this Report on 11/20, 19 84 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11/20/84 [signature] (Inspector) Commissions 6265W (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Plan No. 2-0208

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Washington Public Power Supply System (Name) Date 10/31/84
   3000 George Washington Way, Richland, WA 99352 (Address) Sheet 1 of 1
2. Plant WNP-2 (Name) Unit N/A
   Hanford, Benton County, WA 99352 (Address)
3. Work Performed by WPPSS (Name) WPPSS Repair Organization P.O No., Job No., etc.
   3000 Geo. Wash. Way, Richland, WA (Address)
4. Identification of System Hydraulic System (HY)
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, Code Cases None
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W 80 Addenda, Code Cases N 308
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HY(1)-6S-A	WPPSS	*	N/A	N/A	N/A	1983	Repaired	Yes, Class 2

7. Description of Work Repaired leaking field weld 47 as follows:
   1. Cut field weld 47 at reducing insert.
   2. Preped the reducing insert area.
   3. PT examined the preped area. PT examination results acceptable.
   4. Made field weld 47-1.
   5. PT examined the final weld. PT examination results acceptable.
   6. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Test Pressure 1800 psig Test Temp Amb °F Component Design Pressure 2200 psig Temp. 185°F
9. Remarks None
   (Applicable Manufacturer's Data Reports to be attached)

*HY(1)-6S-A-P1
WPPSS - Washington Public Power Supply System

Plan No. 2-0208

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.

Signed [signature] Plant Tech. Manager 10/29 ,19 84
(Owner or Owner's Designee) Title (Date)

K Sauer 10/31/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Province of~~ Washington employed by Lumbermen's Mutual Casualty Co. of Illinois have inspected the repair described in this Report on 10/30 ,19 84
(Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30/84 [signature] Commissions 6265W
(Inspector) (State ~~or Province~~, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size 8½ in. X 11 in., (2) information in Items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.