

CATEGORY 1

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 SWANK, D.A. Washington Public Power Supply System
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SUBJECT: Responds to RAI re second ten yr interval ISI program relief
 2ISI-15 for exam Category C-G pump casing welds.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • Richland, Washington 99352-0968

May 19, 1997
GO2-97-099

Docket No. 50-397

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Gentlemen:

Subject: **WNP-2, OPERATING LICENSE NPF-21
REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND
10-YEAR INTERVAL INSERVICE INSPECTION PROGRAM RELIEF
2ISI-15**

- References:
- 1) Letter GI2-97-069, dated March 31, 1997, TG Colburn (NRC) to JV Parrish (SS) "Request For Additional Information Regarding The Washington Public Power Supply System WNP-2 Second 10-Year Interval Inservice Program Plan Relief Request 2ISI-15 (TAC NO. M93905)"
 - 2) Letter G02-95-208, dated October 6, 1995, JV Parrish (SS) to NRC "Second 10-Year Inservice Inspection Program Plan Relief Request For Examination Category C-G Pump Casing Welds"

In response to Reference 1, enclosed as Attachment A is additional information requested by the staff regarding relief request 2ISI-15 for Examination Category C-G pump casing welds (Reference 2). Enclosed as Attachment B is a resubmittal of relief request 2ISI-15 which has been revised to reflect the information provided in Attachment A.

Should you have any questions or desire additional information regarding this matter, please call me at (509)-377-4563.

Respectfully,

D. A. Swank

D. A. Swank (Mail Drop PE20)
Manager, Regulatory Affairs

A0471/1

Attachments

cc: EW Merschhoff - NRC RIV
KE Perkins, Jr. - NRC RIV, WCFO
TG Colburn - NRR
MT Anderson - INEL

NRC Resident Inspector, WNP-2 / 927N
DL Williams - BPA / 399
PD Robinson - Winston & Strawn

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9705280185 970519
PDR ADOCK 05000397
Q PDR



REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15

Attachment A

Page 1 of 4

Listed below are responses to the staff's request for additional information as noted in Reference 1.

QUESTION 1

Confirm that the appropriate paragraph of 10 CFR 50.55a has been cited to ensure that the request for relief is evaluated in accordance with the appropriate criteria.

RESPONSE

Using the guidance provided by the staff in Reference 1, the Supply System is hereby requesting relief under 10 CFR 50.55a(a)(3)(ii) instead of 10 CFR 50.55a(g)(6)(i). The Supply System considers the disassembly of the pumps solely to provide access for the examinations to be a hardship. Considerable manpower and dose would also be expended to accomplish these examinations. The Supply System resubmittal of the relief request (Attachment B) provides additional justification for granting the request.

QUESTION 2

Discuss any examinations that were performed on the subject pumps in the first interval.

Response

No surface or volumetric casing weld examinations were performed on the LPCS, HPCS, or RHR pumps during the period covered by the First 10-Year Inservice Inspection Program Plan. The pumps were subjected to ASME Section XI pressure testing per Code Category C-H, Item C7.30 once each inspection period and Item C7.40 (modified by Code Case N-498) at the end of the inspection interval. No leakage has been observed from the visible areas of the pumps. During periodic pump operability testing the pumps are also observed for leakage.

The HPCS and LPCS pump casing welds, which are on the suction side of the pump impellers, were exempted during the first interval from examination under Section XI paragraph IWC-1220(a) of the 1980 Edition, Winter 1980 Addenda. This section exempted components that are not required to perform a system function during normal plant operation but remain flooded under static conditions to a pressure of at least 80% of the system operating pressure. For these pumps, static suction pressure is approximately 18 psig, or over 100% of typical suction pressures during system operation of 13 to 17 psig. During design basis accident conditions in

REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15

Attachment A

Page 2 of 4

the containment wetwell, the pump casing welds may see pressures as high as 44 psig. However, containment pressure was not included in the evaluation for the first 10-year Inservice Inspection Program Plan because post accident containment pressure is not credited for net positive suction head calculations at WNP-2. The HPCS and LPCS pump casings have successfully passed hydrostatic tests during shop fabrication and field installation at pressures between 126 psig and 190 psig.

The discharge side welds of the HPCS and LPCS pumps were inadvertently included with the suction side welds and exempted by IWC-1220(a). They should not have been exempted and should have received examination during the first interval. This has been identified and corrective action to examine these welds during the current refueling outage will occur. See response to question 4 for further information.

The RHR pumps were designed and procured to the 1971 Edition of the ASME Code with Summer 1971 Addenda. Casing welds were not required to be designed for inservice inspection access under that version of the code. Table 4.1 of the First 10-Year Inservice Inspection Program Plan reflects this information and states that casing weld inspections could only be performed from the inside of the pump barrel because the exterior surfaces of the welds are inaccessible, and pump disassembly is considered impractical for the sole purpose of inspection of casing welds. Since the pumps were not disassembled for maintenance during the first 10-year interval, the casing welds were not inspected during that time period.

However, casing weld inspections were performed as part of the preservice inspection program prior to initial plant startup because the pumps were disassembled for maintenance during preoperational testing. Also, the casing welds for the RHR pumps successfully passed hydrostatic testing during shop fabrication and field installation at pressures between 135 and 330 psig.

For the RHR pumps several welds were inadvertently classified as inaccessible for the first 10-year program plan. They should not have been identified as inaccessible and should have received examination during the first interval. This has been identified and corrective action to examine the welds on one RHR pump during the current refueling outage will occur. See response to question 4 for further information.

**REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR
INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15**

Attachment A
Page 3 of 4

QUESTION 3

Does WNP-2 have current plans to disassemble the LPCS, HPCS, or RHR pumps for maintenance?

Response

None of the five pumps are currently scheduled for disassembly. Such major maintenance would be undertaken only in response to a specific problem that warranted disassembly. There are currently no trends or indications of degraded pump performance.

QUESTION 4

Based on a review of the sketches, it appears that a portion of some of the subject welds may be accessible from the outside surface. Is this the case and, if so, has the licensee performed any partial examinations from the outside surface?

Response

Upon further review, it has been confirmed that the discharge welds listed below, or a portion of them, are accessible for outside surface examination:

WELDS

PUMPS

C-4, C-5, and N-3

LPCS-P-1, RHR-P-2A, RHR-P-2B, RHR-P-2C

C-4, C-5, C-6 and N-3

HPCS-P-1

The degree of accessibility depends on the access available for removing the protective coating (paint) to perform the examination. These welds are within the shroud between the pump casing and the pump motor. Inside this shroud are the seal cooler piping and the pump shaft. The two openings in the shroud, 180 degrees apart, provide the access to these welds. The seal cooler piping, the pump shaft and the shroud openings partially obstruct the process of removing the protective coating so an examination can be performed.

REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15

Attachment A
Page 4 of 4

Two welds on the suction side of the pumps, L-3 and N-1, have limited accessibility due to the pump pit and grouting around these welds. L-3 is not accessible from the outside. During the present refueling outage the N-1 weld for one RHR pump will receive a partial inspection due to only a small area being accessible from the top and bottom.

As stated in the response to question 2, the discharge welds for the HPCS and LPCS pumps were inadvertently included with the suction side welds and therefore were not examined during the first inspection interval. For the RHR pumps the discharge welds were inadvertently classified as inaccessible. In addition, the N-1 suction welds for the RHR pumps were deemed inaccessible. Corrective action is in progress to examine the discharge side welds of the HPCS and LPCS pumps, and one RHR pump during the current refueling outage. In addition, one suction side weld on one RHR pump will also be examined. These examinations will satisfy the examinations required for the First 10-Year Inservice Inspection Program Plan. In addition, the RHR pump examination will be credited for the first inspection period of the Second 10-Year Inservice Inspection Program Plan.

Relief request 2ISI-15 has been revised (see Attachment B) as follows:

- 1) The welds that are accessible for outside examination were removed from the relief request.
- 2) Welds that are partially accessible from the outside are identified as such and will be examined per the existing ASME Section XI schedule. The inaccessible portions will be examined when pumps are disassembled for maintenance.
- 3) Under alternative examinations the reference to note 1 of Table IWC-2500-1, Code Category C-G has been removed due to the note's inapplicability to unscheduled examinations (as noted by the staff in Reference 1).
- 4) Revised pages to Table 9.1.4 in the relief request to reflect the new inspection schedule for inspecting pump discharge welds, and the N-1 suction side welds.

**REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR
INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15**

Attachment B
Page 1 of 6

RESUBMITTAL OF RELIEF REQUEST 2ISI-15

Welds for Which Relief is Requested

ASME Section XI Examination Category C-G, Code item number C6.10, pressure retaining welds in pumps and valves.

<u>Ident. No.</u>	<u>Description</u>	<u>Item No.</u>	<u>ISI Diagram No.</u>
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Welds accessible only from the inside surface

RHR-P-2A

RHR-P-2AC-1	PMP CAS/CIR WLD ¹	C6.10	RHR-213
RHR-P-2AC-2	PMP CAS/CIR WLD	C6.10	RHR-213
RHR-P-2AC-3	PMP CAS/CIR WLD	C6.10	RHR-213
RHR-P-2AN-2	PMP NOZZLE WELD ²	C6.10	RHR-213
RHR-P-2AL-1	PMPCAS/LONG.WLD ³	C6.10	RHR-213
RHR-P-2AL-2	PMPCAS/LONG.WLD	C6.10	RHR-213

RHR-P-2B

RHR-P-2BC-1	PMP CAS/CIR WLD	C6.10	RHR-213
RHR-P-2BC-2	PMP CAS/CIR WLD	C6.10	RHR-213
RHR-P-2BC-3	PMP CAS/CIR WLD	C6.10	RHR-213
RHR-P-2BN-2	PMP NOZZLE WELD	C6.10	RHR-213
RHR-P-2BL-1	PMPCAS/LONG.WLD	C6.10	RHR-213
RHR-P-2BL-2	PMPCAS/LONG.WLD	C6.10	RHR-213
RHR-P-2BL-3	PMPCAS/LONG.WLD	C6.10	RHR-213

-
- ¹ Pump casing circumferential weld
² Pump nozzle weld
³ Pump casing longitudinal weld

**REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR
INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15**

Attachment B

Page 2 of 6

RHR-P-2C

RHR-P-2CC-1	PMP CAS/CIR WLD	C6.10	RHR-213
RHR-P-2CC-2	PMP CAS/CIR WLD	C6.10	RHR-213
RHR-P-2CC-3	PMP CAS/CIR WLD	C6.10	RHR-213
RHR-P-2CN-2	PMP NOZZLE WELD	C6.10	RHR-213
RHR-P-2CL-1	PMPCAS/LONG.WLD	C6.10	RHR-213
RHR-P-2CL-2	PMPCAS/LONG.WLD	C6.10	RHR-213
RHR-P-2CL-3	PMPCAS/LONG.WLD	C6.10	RHR-213

HPCS-P-1

HPCS-P-1C-1	PMP CAS/CIR WLD	C6.10	HPCS-206-1
HPCS-P-1C-2	PMP CAS/CIR WLD	C6.10	HPCS-206-1
HPCS-P-1C-3	PMP CAS/CIR WLD	C6.10	HPCS-206-1
HPCS-P-1C-7	PMP CAS/CIR WLD	C6.10	HPCS-206-1
HPCS-P-1N-2	PMP NOZZLE WELD	C6.10	HPCS-206-1
HPCS-P-1L-1	PMPCAS/LONG.WLD	C6.10	HPCS-206-1
HPCS-P-1L-2	PMPCAS/LONG.WLD	C6.10	HPCS-206-1
HPCS-P-1L-3	PMPCAS/LONG.WLD	C6.10	HPCS-206-1

LPCS-P-1

LPCS-P-1C-1	PMP CAS/CIR WLD	C6.10	LPCS-208-1
LPCS-P-1C-2	PMP CAS/CIR WLD	C6.10	LPCS-208-1
LPCS-P-1C-3	PMP CAS/CIR WLD	C6.10	LPCS-208-1
LPCS-P-1N-2	PMP NOZZLE WELD	C6.10	LPCS-208-1
LPCS-P-1L-1	PMPCAS/LONG.WLD	C6.10	LPCS-208-1
LPCS-P-1L-2	PMPCAS/LONG.WLD	C6.10	LPCS-208-1
LPCS-P-1L-3	PMPCAS/LONG.WLD	C6.10	LPCS-208-1

**REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR
INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15**

Attachment B
Page 3 of 6

Welds partially accessible from the outside surface

RHR-P-2A

RHR-P-2AN-1 ⁴	PMP NOZZLE WELD	C6.10	RHR-213
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RHR-P-2B

RHR-P-2BN-1 ⁵	PMP NOZZLE WELD	C6.10	RHR-213
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RHR-P-2C

RHR-P-2CN-1 ⁶	PMP NOZZLE WELD	C6.10	RHR-213
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HPCS-P-1

HPCS-P-1C-5 ⁷	PMP CAS/CIR WLD	C6.10	HPCS-206-1
HPCS-P-1N-1 ⁸	PMP NOZZLE WELD	C6.10	HPCS-206-1

LPCS-P-1

LPCS-P-1N-1 ⁹	PMP NOZZLE WELD	C6.10	LPCS-208-1
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-
- ⁴ Partially accessible from the outside surface. Can examine the top and bottom only due to pump pit and grout around weld.
 - ⁵ Partially accessible from the outside surface. Can examine the top and bottom only due to pump pit and grout around weld.
 - ⁶ Partially accessible from the outside surface. Can examine the top and bottom only due to pump pit and grout around weld.
 - ⁷ Can examine approximately 25% from outside surface due to interference from motor shroud.
 - ⁸ Partially accessible from the outside surface. Can examine the top and bottom only due to pump pit and grout around weld.
 - ⁹ Partially accessible from the outside surface. Can examine the top and bottom only due to pump pit and grout around weld.

REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15

Attachment B

Page 4 of 6

Section XI Requirements

Section XI, Table IWC-2500-1, Examination Category C-G, item C6.10 requires a surface examination of the weld and adjacent base metal. The examination can be performed from either the inside or outside of the pump casing. Per subarticle IWC-2400 "Inspection Schedule," the required examinations in each Examination Category shall be completed each inspection interval in accordance with Table IWC-2412-1. This table requires that approximately one third of the items in each category be examined each inspection period (3 to 4 year intervals).

Code Requirement from Which Relief is Requested

Relief is requested from the requirements of IWC-2400 for Examination Category C-G welds, identified in this relief request of pumps HPCS-P-1, LPCS-P-1, RHR-P-2A, RHR-P-2B, and RHR-P-2C. This requires approximately one third of the welds be examined each inspection period.

Basis for Relief

Relief is requested on the basis that examination of these welds to the schedule required by IWC-2400 places a hardship on the plant. The subject pumps were designed prior to the requirement to perform Class 2 component examinations for inservice inspection. The pump casings are embedded in a pump pit which allows no access to the outside surface for any nondestructive examination method. The upper flange is at floor level. The welds are accessible for examination from the pump internal surfaces. To meet the requirements of IWC-2400, the pump would require disassembly and the pump impeller removed. One pump would require disassembly each inspection period. Disassembly of the pump would require a large expenditure of man-hours and accompanying personnel exposure. This is considered a hardship for the plant solely for the purpose of performing nondestructive examination of the pump casings. Figures 1, 2, and 3 illustrate the pumps' installation details.

REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15

Attachment B
Page 5 of 6

Alternative Examinations

The welds identified in this relief request as "partially accessible from the outside surface" will be examined per the IWC-2400 schedule. The inaccessible portions of these welds will be examined when the pump is disassembled for maintenance. When pumps HPCS-P-1, LPCS-P-1, RHR-P-2A, RHR-P-2B, and RHR-P-2C are disassembled for maintenance to the degree that the welds identified in this relief request are accessible for examination, the requirements of Code Examination Category C-G will be implemented for the disassembled pumps. The examination will be performed on accessible areas of the welds as defined in ASME Section XI Figure IWC-2500-8.

Justification for the Granting of Relief.

This relief request should be granted for the following reasons:

1. It is estimated to take at least 3 days to disassemble a pump and at least another 4 days to reassemble it. The dose on the inside of the pipe and pump is calculated to be 200 mrem/hr general area. A large expenditure of man-hours and personnel dose would be required to perform this task.
2. The accessible portions of the welds will be examined when the pumps are disassembled for maintenance. This sample of weld and base metal should detect generic degradation of the pump casing welds if it is occurring.
3. A sample of category C-G welds that are accessible will be examined from the outside each inspection period.
4. The pumps are routinely tested for operability per plant Technical Specifications. The pumps are routinely observed for leakage during these tests. The pumps are subject to periodic system pressure tests per the requirements of ASME Section XI.
5. Pump operating conditions (i.e. flow, pressure) are available to the control room operators. Control room annunciators are provided to alert plant operators to abnormal operating conditions.
6. Procedures are in place for the operators to respond to abnormal pump conditions (i.e. pump failure).

**REQUEST FOR ADDITIONAL INFORMATION REGARDING SECOND 10-YEAR
INTERVAL INSERVICE INSPECTION PROGRAM RELIEF 2ISI-15**

Attachment B

Page 6 of 6

7. Redundant safety systems exist if a pump were to become inoperable.
8. The casing welds of pumps RHR-P-2A, RHR-P-2B, and RHR-P-2C received a preservice inspection magnetic particle examination from the internal surface when the pumps were disassembled prior to plant startup. Pumps HPCS-P-1 and LPCS-P-1 did not require preservice inspection.

The measures taken by the alternative examinations and the routinely scheduled surveillance and tests identified above ensure plant safety is maintained if the alternative examinations are implemented.

Implementation Schedule

This relief request will be implemented during the second inservice inspection interval.

NOTES:

1. THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE INSPECTION PROGRAMS ONLY.
2. CASING MATERIALS ARE SA516 GR.70 PLATE.
3. PREFIX HPCS-P-1 IS LEFT OFF EACH WELD NUMBER FOR CLARITY.

LEGEND:

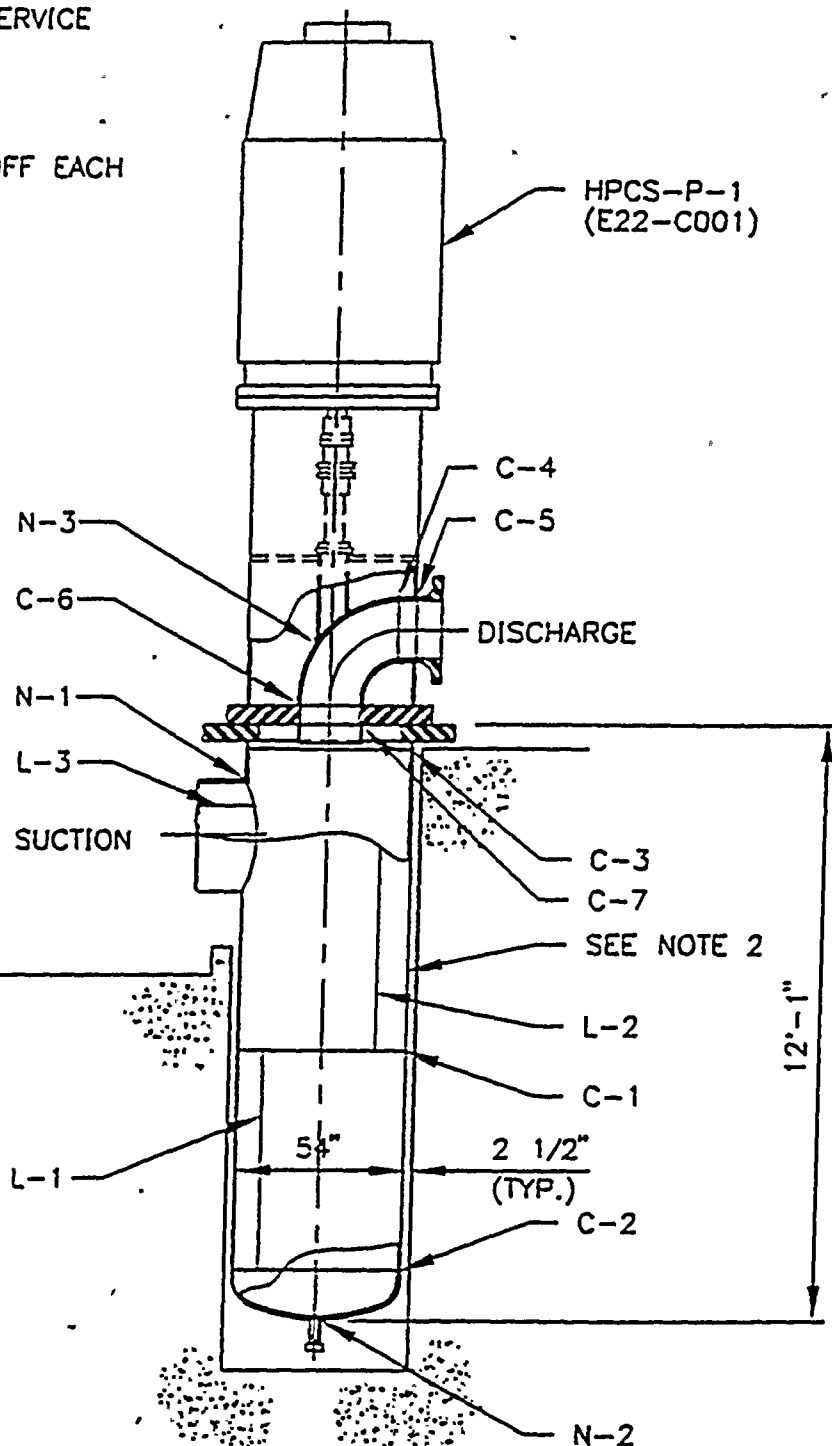
C - CIRCUMFERENTIAL WELD
L - LONGITUDINAL WELD
N - NOZZLE WELD

REFERENCE DRAWINGS:

FABRICATION PACKAGE
MPL# E22-C001

GENERAL ARRANGEMENT
CVI# 02E22-06.7

FLOOR EL. 422'-3"



WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

REV	DATE	DESCRIPTION	DWN CHK	APVD
0	9-1-95	NEW ISSUE DRAWING	DLE SPL	<i>[Signature]</i>

WELD AND COMPONENT
IDENTIFICATION DIAGRAM
HPCS-P-1 (E22-C001)

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE	DWG NO.	REV.
D.L. EHR	9-1-95	<i>[Signature]</i>	9-12-95	<i>[Signature]</i>	9-12-95	HPCS-206-1 SH 1 OF 1	0

NOTES:

1. THIS DRAWING IS INTENDED FOR USE IN PRESERVICE AND INSERVICE PROGRAMS ONLY.
2. CASING MATERIALS ARE SA516 GR.70 PLATE.
3. PREFIX LPCS-P-1 IS LEFT OFF EACH WELD FOR CLARITY

LEGEND

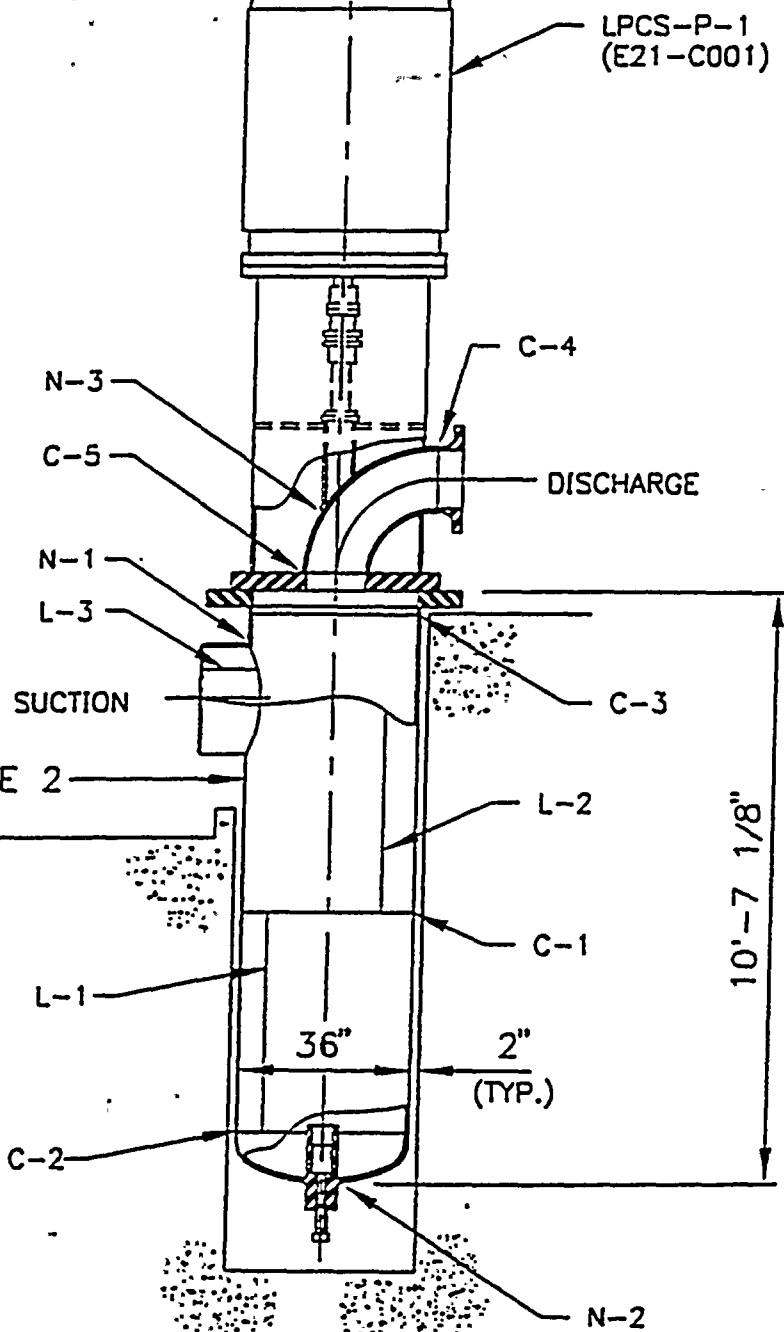
C - CIRCUMFERENTIAL WELD
L - LONGITUDINAL WELD
N - NOZZLE WELD

REFERENCE DRAWINGS

FABRICATION PACKAGE
MPL# E21-C001
GENERAL ARRANGEMENT
CVI# 02E21-06,8

FLOOR EL. 422'-3"

SEE NOTE 2



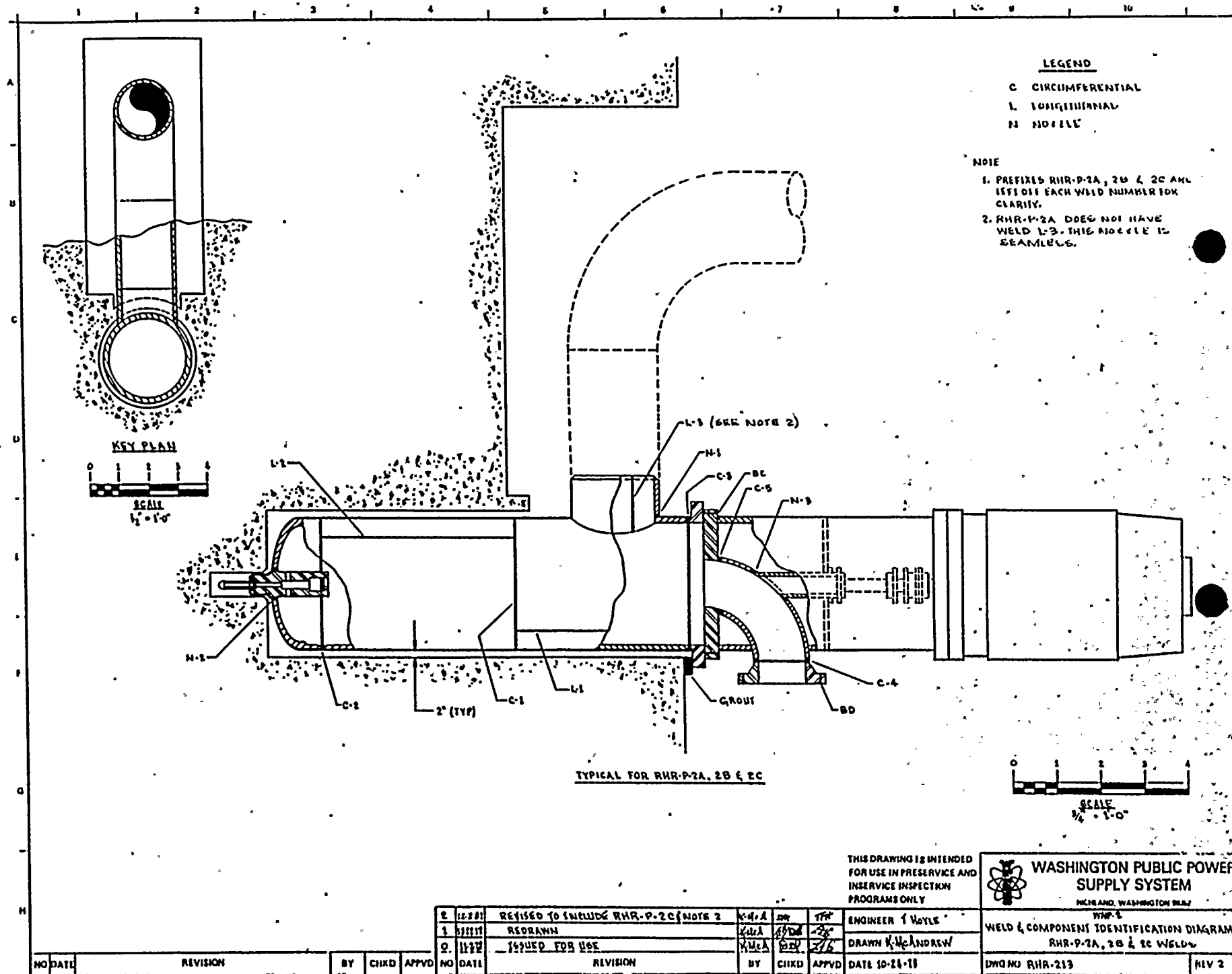
WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

REV	DATE	DESCRIPTION	DWN CHK	APVD
0	9-1-95	NEW ISSUE DRAWING	DLE 7/2/95	CHK

WELD AND COMPONENT
IDENTIFICATION DIAGRAM
LPCS-P-1 (E21-P001)

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE	DWG NO.	REV.
D.L. EHR	9-1-95	DP/10/95	7-22-95	CHK	7/22/95	LPCS-208-1 SH 1 OF 1	0

Figure 3



WNP-2
Interval 2
HPCS - High Pressure Core Spray

Table 9.1.4
Washington Public Power Supply System
ISI Program Plan and Schedule
(Grouped by Drawing No. and Walkdown Order)

Revision 1

Pg	Identification No.	Description	Category	Item No.	Method	Per.	Out.	Reqmt.	Code	Out. Freq.	Rel. Req.	Remarks
Diagram No. HPCS-206												
01	HPCS-P-1C-1	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	HPCS-P-1C-2	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	HPCS-P-1C-3	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	HPCS-P-1C-4	PMP CAS/CIR WLD	C-G	C6.10	SUR	2	15	1	CE	10		
	HPCS-P-1C-5	PMP CAS/CIR WLD	C-G	C6.10	SUR	2	15	1U	CE	10	15	Weld accessible from 315 degree to 45 degree from 00
	HPCS-P-1C-6	PMP CAS/CIR WLD	C-G	C6.10	SUR	2	15	1	CE	10		
	HPCS-P-1C-7	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	HPCS-P-1N-1	PMP NOZZLE WELD	C-G	C6.10	SUR	2	15	1U	CE	10	15	Top and Bottom of weld accessible from outside surface. Sides are inaccessible due to pump pit and grout around weld.
	HPCS-P-1N-2	PMP NOZZLE WELD	C-G	C6.10	SUR			U	C	0	15	
	HPCS-P-1N-3	PMP NOZZLE WELD	C-G	C6.10	SUR	2	15	1	CE	10		
	HPCS-P-1L-1	PMPCAS/LONG WLD	C-G	C6.10	SUR			U	C	0	15	
	HPCS-P-1L-2	PMPCAS/LONG WLD	C-G	C6.10	SUR			U	C	0	15	
	HPCS-P-1L-3	PMPCAS/LONG WLD	C-G	C6.10	SUR			U	C	0	15	

WNP-2
Interval 2
LPCS - Low Pressure Core Spray

Table 9.1.4
Washington Public Power Supply System
ISI Program Plan and Schedule
(Grouped by Drawing No. and Walkdown Order)

Revision 1

Pg	Identification No.	Description	Category	Item No.	Method	Per.	Out.	Reqmt.	Code	Out. Freq.	Rel. Req.	Remarks
Diagram No. LPCS-208												
01	LPCS-P-1C-1	PMP CAS/CIR WLD	C-G	C6.10	SUR				C	0	15	
	LPCS-P-1C-2	PMP CAS/CIR WLD	C-G	C6.10	SUR				C	0	15	
	LPCS-P-1C-3	PMP CAS/CIR WLD	C-G	C6.10	SUR				C	0	15	
	LPCS-P-1C-4	PMP CAS/CIR WLD	C-G	C6.10	SUR	3	17	1	CE	10		
	LPCS-P-1C-5	PMP CAS/CIR WLD	C-G	C6.10	SUR	3	17	1	CE	10		
	LPCS-P-1N-1	PMP NOZZLE WELD	C-G	C6.10	SUR				C	0	15	Top and Bottom of weld accessible from outside surface. Sides are inaccessible due to pump pit and grout around weld.
	LPCS-P-1N-2	PMP NOZZLE WELD	C-G	C6.10	SUR				C	0	15	
	LPCS-P-1N-3	PMP NOZZLE WELD	C-G	C6.10	SUR	3	17	1	CE	10		
	LPCS-P-1L-1	PMPCAS/LONG WLD	C-G	C6.10	SUR				C	0	15	
	LPCS-P-1L-2	PMPCAS/LONG WLD	C-G	C6.10	SUR				C	0	15	
	LPCS-P-1L-3	PMPCAS/LONG WLD	C-G	C6.10	SUR				C	0	15	

WNP-2
Interval 2
RHR - Residual Heat Removal

Table 9.1.4
Washington Public Power Supply System
ISI Program Plan and Schedule
(Grouped by Drawing No. and Walkdown Order)

Revision 1

Pg	Identification No.	Description	Category	Item No.	Method	Per.	Out.	Reqt.	Code	Out. Freq.	Rel. Req.	Remarks
Diagram No. RHR-213												
	RHR-P-2AC-1	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2AC-2	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2AC-3	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2AC-4	PMP CAS/CIR WLD	C-G	C6.10	SUR				C	0		RHR-P-2B is the one pump being examined per note 1 Table 2500-1, Category C-G.
	RHR-P-2AC-5	PMP CAS/CIR WLD	C-G	C6.10	SUR				C	0		RHR-P-2B is the one pump being examined per note 1 Table 2500-1, Category C-G.
	RHR-P-2AN-1	PMP NOZZLE WELD	C-G	C6.10	SUR			U	C	0	15	Top and Bottom of weld accessible from outside surface. Sides are inaccessible due to pump pit and grout around weld.
	RHR-P-2AN-2	PMP NOZZLE WELD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2AN-3	PMP NOZZLE WELD	C-G	C6.10	SUR				C	0		RHR-P-2B is the one pump being examined per note 1 Table 2500-1, Category C-G.
	RHR-P-2AL-1	PMPCAS/LONG.WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2AL-2	PMPCAS/LONG.WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2A(CS)	RHR PUMP BASE	F-A	F1.40A	VT-3	1	10	41	CE	10		
	RHR-P-2BC-1	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2BC-2	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2BC-3	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2BC-4	PMP CAS/CIR WLD	C-G	C6.10	SUR	1	12	1	CE	10		
	RHR-P-2BC-5	PMP CAS/CIR WLD	C-G	C6.10	SUR	1	12	1	CE	10		

WNP-2
Interval 2
RHR - Residual Heat Removal

Table 9.1.4
Washington Public Power Supply System
ISI Program Plan and Schedule
(Grouped by Drawing No. and Walkdown Order)

Revision 1

Pg	Identification No.	Description	Category	Item No.	Method	Per.	Out.	Requmt.	Code	Out. Freq.	Rel. Req.	Remarks
Diagram No. RHR-213												
	RHR-P-2BN-1	PMP NOZZLE WELD	C-G	C6.10	SUR	1	12	1	CE	10	15	Top and Bottom of weld accessible from outside surface. Sides are inaccessible due to pump pit and grout around weld.
	RHR-P-2BN-2	PMP NOZZLE WELD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2BN-3	PMP NOZZLE WELD	C-G	C6.10	SUR	1	12	U	CE	10		
	RHR-P-2BL-1	PMPCAS/LONG.WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2BL-2	PMPCAS/LONG.WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2BL-3	PMPCAS/LONG.WLD	C-G	C6.10	SUR			U	C	0	15	
	RHR-P-2B(CS)	RHR PUMP BASE	F-A	F1.40A	VT-3	1	10	41	CE	10		
	RHR-P-2CC-1	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0		
	RHR-P-2CC-2	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0		
	RHR-P-2CC-3	PMP CAS/CIR WLD	C-G	C6.10	SUR			U	C	0		
	RHR-P-2CC-4	PMP CAS/CIR WLD	C-G	C6.10	SUR				C	0		RHR-P-2B is the one pump being examined per note 1 Table 2500-1, Category C-G.
	RHR-P-2CC-5	PMP CAS/CIR WLD	C-G	C6.10	SUR				C	0		RHR-P-2B is the one pump being examined per note 1 Table 2500-1, Category C-G.
	RHR-P-2CN-1	PMP NOZZLE WELD	C-G	C6.10	SUR			U	C	0		
	RHR-P-2CN-2	PMP NOZZLE WELD	C-G	C6.10	SUR			U	C	0		
	RHR-P-2CN-3	PMP NOZZLE WELD	C-G	C6.10	SUR				C	0		RHR-P-2B is the one pump being examined per note 1 Table 2500-1, Category C-G.
	RHR-P-2CL-1	PMPCAS/LONG.WLD	C-G	C6.10	SUR			U	C	0		
	RHR-P-2CL-2	PMPCAS/LONG.WLD	C-G	C6.10	SUR			U	C	0		
	RHR-P-2CL-3	PMPCAS/LONG.WLD	C-G	C6.10	SUR			U	C	0		

WNP-2
Interval 2
RHR - Residual Heat Removal

Table 9.1.4
Washington Public Power Supply System
ISI Program Plan and Schedule
(Grouped by Drawing No. and Walkdown Order)

Revision 1

Pg	Identification No.	Description	Category	Item No.	Method	Per.	Out.	Reqmt.	Code	Out. Freq.	Rel. Req.	Remarks
Diagram No. RHR-213												
	RHR-P-2C(CS)	RHR PUMP BASE	F-A	F1.40A	VT-3	1	10	41	CE	10		
	RHR-PB-213(L)	LK PRES BNDRY	C-H	C7.50	VT-2	1	13	P	CE	3		
	RHR-PB-213(H)	HYDRO PRES BNDR	C-H	C7.60	VT-2	3	19	E	CE	10		

