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ACCESSION NBR: 8607280126 DOC. DATE: 86/07/22 NOTARIZED: NO DOCKET #
FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
AUTH. NAME AUTHOR AFFILIATION
SORENSEN, G. C. Washington Public Power Supply System
RECIP. NAME RECIPIENT AFFILIATION
ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Forwards addl info re 10-yr inservice insp program, per NRC 860610 request for addl info. Status of relief requests re preservice insp also requested.

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	BRADFUTE, J		1	1				
INTERNAL:	ACRS	16	10	10	ADM/LFMB		1	0
	ELD/HDS2		1	0	NRR/DSRO/EIB		1	1
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REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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	BRADFUTE,J	1	1			
INTERNAL:	ACRS [illegible]	10	10	ADM/LFMB	1	0
	ELD/HDS3	1	0	NRR/DGRS/EIB	1	1
	[illegible]	1	1	REG FILE 04	1	1
	RGN5	1	1			
EXTERNAL:	LPDR 03	1	1	NRC PDR 02	1	1
	NSIC 05	1	1			

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Washington Public Power Supply System
3000 George Washington Way P.O. Box 968 Richland, Washington 99352-0968 (509)372-5000

July 22, 1986
G02-86-679

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attn: Ms. E. G. Adensam, Project Director
BWR Project Directorate No. 3
Division of BWR Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

Subject: NUCLEAR PLANT NO. 2
INSERVICE INSPECTIONS AND INSERVICE TESTING PROGRAMS AND RESPONSE TO REQUEST FOR INFORMATION

Reference:
1) Letter, E.G. Adensam (NRC) to G.C. Sorensen (SS), "WNP-2 Ten Year Internal Inservice Inspection Program Request for Additional Information", dated June 10, 1986

2) Letter, G.C. Sorensen (SS) to E.G. Adensam (NRC), "Inquiry as to Status of Request for Relief for Interim Approval of Revision 3 to WNP-2 Pump and Valve Inservice Test Program Plan", G02-86-211, dated March 12, 1986

3) Letter G.C. Sorensen (SS) to E. G. Adensam (NRC), "Preservice Inspection Program Plan Inservice Inspection Program Plan Request for Relief", G02-86-179, dated February 27, 1986

As requested by Reference 1) enclosed is additional information on the WNP-2 10-year Inservice Inspection Program. Should you have further questions on the Inservice Inspection or Inservice Testing Program Plan please contact Mr. P. L. Powell; Manager, WNP-2 Licensing.

A047
1/1

Additionally References 2) and 3) requested action on the staff's part which to date has not been forthcoming. A review of our records shows we have two outstanding related open items. Reference 2) requested the status of the interim approval to use Revision 3 of the WNP-2 Pump and Valve Test Program submitted December 26, 1985. Reference 3) requested NRC's review of Preservice Inspection and Inservice Inspection requests for relief submitted 5/17/85 and 5/29/85 respectively. Reference 1) does contain questions on the Inservice Inspection Program Request for relief however the Preservice Inspection requests for relief are still open. It is our understanding that this item is resolved however formal confirmation is still required. A status of these two items is requested.

Very truly yours,

for G. C. Sorensen, Manager
Regulatory Programs

PLP/bk

cc: JO Bradfute - NRC
JB Martin - NRC RV
E Revell - BPA
NS Reynolds - BLCP&R
NRC Site Inspector

RESPONSE TO NRC's
REQUEST FOR ADDITIONAL INFORMATION
FOR WASHINGTON PUBLIC POWER SUPPLY SYSTEM
WPPSS NUCLEAR PLANT NO. 2
DOCKET NUMBER 50-397

Question:

A. In Section 14.0, "Weld and Component Identification Diagrams," of the ISI Program Plan, the Program Plan and Schedule Tables list the following welds as being inspected to Table IWC-2500-1, Examination Category C-F-2, Item C5.51 of the Code with only surface examination being required:

WELD NUMBERS

18RHR(20)A-1	18RHR(20)B-1
18RHR(20)A-2	18RHR(20)B-2
18RHR(20)A-3	18RHR(20)B-3
18RHR(20)A-4	18RHR(20)B-4

To satisfy the inspection requirements of Item C5.51, these welds require both surface and volumetric examinations. Clarification of this issue is needed.

Response:

The Supply System revised the WNP-2 ISI Program Plan and has included in it a surface and volumetric examination requirement for each of the above listed welds. Attached markups reflect this change.

Question:

B. Isometric Drawing No. HPCS-202-4 is missing from the ISI Program Plan. Provide the staff with a copy of this drawing.

Response

Enclosed is a copy of ISI weld and identification diagram HPCS-202-4, Rev. 2. This drawing was being revised and inadvertently omitted.

Question:

C. In Relief Request ISI-2-001, relief from performing a 100% volumetric examination of 13 Class 1, ASME Section XI, Category B-A, pressure retaining welds in the reactor pressure vessel was requested on the basis of partial inaccessibility of the welds due to plant design. For the proposed partial volumetric examination of these welds, the Licensee should define the percentage of each weld to be examined.

Response:

Request for Relief No. ISI-2-001 has been revised and is hereby submitted for your review. It now contains a tabulation of each RPV weld and the percent which is accessible.

Question:

D. Relief Request ISI-2-002 requests use of a schedule 40 calibration block instead of a Schedule 80 calibration block for inspection of Reactor Recirculation 4-inch decontamination connections (8 welds, Examination Category B-J, Item B9.11). The staff requests a copy of the procedure that will be used for calibration of the inspection equipment using the substitute calibration block. Specifically, what adjustments are made for the difference in wall thickness between the Schedule 40 calibration block and the Schedule 80 connections, and how is the Code required examination volume coverage verified? Justify the determination of impracticality for the use of the Schedule 80 calibration block.

Response:

The Supply System hereby withdraws Relief Request ISI-2-002. The examination of these welds will utilize WNP-2 UT calibration standard UT-29. A comparison of this standard to the piping for which it will be used is as follows:

Piping	RRC(8)-4S	4" Sch 80 SA-376 Tp 304
Cal. Block	UT-29	4" Sch 80 SA-312 Tp 304

Section XI, Appendix III, III-3411, "Material Specification" requires the calibration blocks be made from material as specified for the piping being joined by the weld. UT-29, although of a different specification, meets this requirement because the physical and chemical properties are identical. These materials have different specifications because SA-312 allows the pipe to be either seamless or welded, whereas SA-376 allows seamless pipe only. Since the segment of pipe used for the calibration standard does not contain a weld, the materials are identical. Therefore, relief is not required. In addition, a review of the baseline examination performed with UT-31, which is more sensitive due to the smaller notch size of the Schedule 40 pipe, showed no indications; therefore, there are no indications to compare the inservice examination to.

All of the changes addressed in these responses have been incorporated into the WNP-2 ISI Program Plan and will be submitted to the NRC when the plan is formally updated.

Date 04/16/85
Revision 0

REQUEST FOR RELIEF NO. ISI-2-001

Component or System	ASME Class 1, Section XI Category B-A pressure retaining welds in reactor pressure vessel. List attached.
Code	All of the subject welds were designed and fabricated to ASME Section III Class 1 1968 Edition, Summer 1970 Addenda. The Inservice Inspection is to be performed to the 1980 Edition Winter 1980 Addenda of ASME Section XI.
Number of Welds	Category B-A, No. ~~13~~ 16
Section XI Requirements	Section XI requires examination of 100% of the pressure retaining welds in Category B-A be performed completely. The following examinations are required: B-A All pressure retaining welds in Reactor vessel. Volumetric
Basis for Requesting Relief	Relief is required from ASME Section XI examination requirements on the basis of partial inaccessibility of the weld due to plant design. The design and access provisions complied with earlier codes which did not require 100% examination. Per 10CFR50.55a (g) (4) access is not required to be upgraded to the Inservice Inspection Code.

Date 04/16/85

Revision 0

REQUEST FOR RELIEF NO. ISI-2-001

Alternative Examinations

~~None~~ The accessible portion of each weld will be examined per Section XI requirements.

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 RPV welds have passed radiographic, magnetic particle and ultrasonic examinations in accordance with Section III.

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

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

4. 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.

REQUEST FOR RELIEF NO. ISI-2-001

Date_____
Revision_____

Category B-A

ISO No.	Weld Number	Description	% of Weld Examinable	Remarks
RPV-101	AA	BTM HD-SC #1 WD	53%	See Note 1
RPV-101	AB	#1-#2 SC CRC WD	52%	See Note 1
RPV-101	AC	#2-#3 SC CRC WD	39%	See Note 1
RPV-101	AD	#3-#4 SC CRC WD	25%	Seven two-foot long stabilizer lugs obstruct weld at 45° intervals. See Note 1
RPV-101	AE	Vessel to flange	95%	Thermocouples at 135°, 270° and 360°
RPV-101	BJ	#3 SC VRT WD at 50°	90%	Stabilizer lug at weld AD intersection
RPV-101	BK	#3 SC VRT WD at 170°	90%	Stabilizer lug at weld AD intersection
RPV-102	DA	BTM HD MRD at 272°	67%	Thermocouples at weld AA intersection. See Note 2
RPV-102	DB	BTM HD MRD at 332°	67%	See Note 2
RPV-102	DC	BTM HD MRD at 32°	67%	See Note 2
RPV-102	DD	BTM HD MRD at 92°	67%	See Note 2
RPV-102	DE	BTM HD MRD at 152°	67%	See Note 2
RPV-102	DF	BTM HD MRD at 212°	67%	See Note 2
RPV-102	DG	BOT HD DOL at 270°	17%	See Note 3
RPV-102	DR	BOT HD DOL at 90°	17%	See Note 3
RPV-102	AJ	BOT HD DOL WD	93%	See Note 1

Category B-A Continued

Notes:

1. Design of RPV shield wall and external inservice inspection system was completed prior to promulgation of amendments to 10CFR50.55a. Their design limits access to less than 100% of this weld.

2. Only 21" starting from the intersection of weld AA and 14" starting from the intersection of weld AJ can be examined due to the vessel skirt. (Approximately one foot is not being examined on each weld.

3. Only 12" to 23" on each end of the weld, starting from the intersection of weld AJ, can be examined due to CRD penetrations and housings.

WNP-02
INTERVAL: 01
DRAWING NO. RHR-204

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: 18RHR(20)2
DESCRIPTION: RCIC STM-RHR HX-1A

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-590	SPRING	N/A	N/A	N/A				OT	
RHR-612	SPRING	N/A	N/A	N/A				OT	
RHR-588	PSA-3 SN(2)	N/A	N/A	N/A				OT	S/N T2792/B2347
RHR-589	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N 4493
RHR-587	SPRING	N/A	N/A	N/A				OT	
RHR-592	PSA-1/2 SNUBBER	N/A	N/A	N/A				OT	S/N 2782
RHR-593	STRUT	N/A	N/A	N/A				OT	
RHR-591	SPRING	N/A	N/A	N/A				OT	
RHR-595	PSA-1 SNUBBER	N/A	N/A	N/A				OT	S/N 3888
RHR-594	STRUT	N/A	N/A	N/A				OT	
RHR-596	SPRING	N/A	N/A	N/A				OT	
18RHR(20)A-1	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-964N	SPRING	IWF	F-X	VT3H				F	
RHR-597(W)	8 WELDED LUGS	C-C	C3.40	SUR				F	
RHR-597	STRUT	IWF	F-X	VT3H				F	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE

WNP-2
INTERVAL: 1
DRAWING NO. RHR-204

SYSTEM OR COMPONENT: 10RHR(2SS)
DESCRIPTION: RCIC SYS-RHR HX-1A

DATE 04/25/86

WELD NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM METH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
1RHR(2SS)A-2	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
10RHR(2SS)A-3	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
1RHR(2SS)A-4	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-585	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N 9929
RHR-586	PSA-3 SNUBBER	N/A	F-X	N/A				OT	S/N 3894
RHR-584	SPRING	N/A	N/A	N/A				OT	
RHR-583	STRUT	N/A	N/A	N/A				OT	
RHR-582	STRUT	N/A	N/A	N/A				OT	
RHR-975N	ANCHOR	N/A	N/A	N/A				OT	
RHR-949N	BOX	N/A	N/A	N/A				OT	
RHR-950N	BOX	N/A	N/A	N/A				OT	
RHR-951N	BOX	N/A	N/A	N/A				OT	
RHR-953N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N 3879
RHR-955N	BOX	N/A	N/A	N/A				OT	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-208

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(20)-2
DESCRIPTION: LOOP B SPLY-RHR HX1B

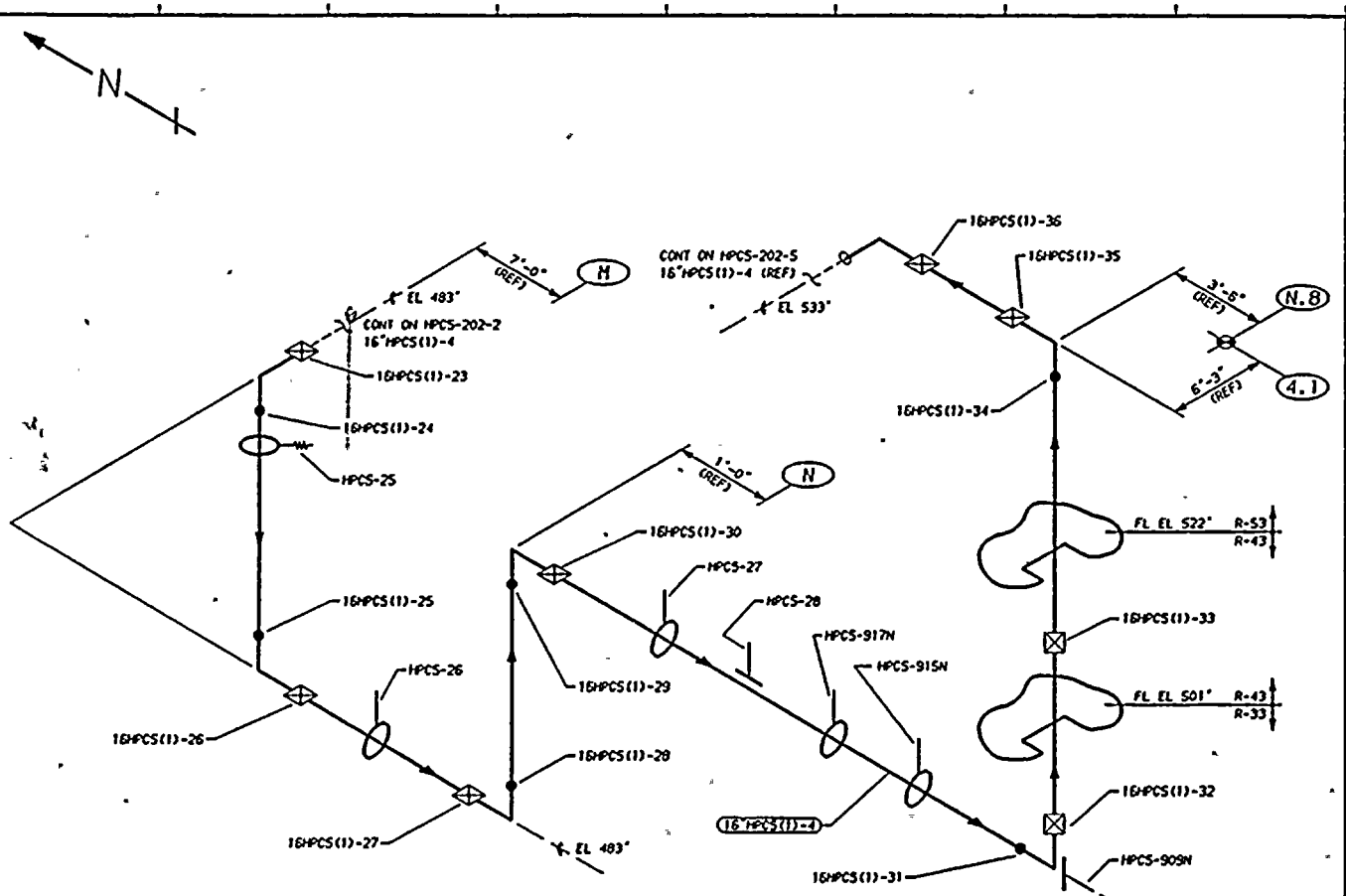
DATE 04/25/86

IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	PER.	SCHEDULED OUTAGE	REQ.	NOTES
RHR-580	SPRING	N/A	N/A	N/A				OT	
RHR-574	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-573	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-572	SPRING	N/A	N/A	N/A				OT	
RHR-607	SPRING	N/A	N/A	N/A				OT	
RHR-571	SPRING	N/A	N/A	N/A				OT	
RHR-575	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-576	STRUT	N/A	N/A	N/A				OT	
RHR-577	SPRING	N/A	N/A	N/A				OT	
RHR-578	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-985N	STRUT	N/A	N/A	N/A				OT	
18RHR(20)B-1	VALVE TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-608	SPRING	IWF	F-X	VT3H				F	
18RHR(20)B-2	PIPE TO EL	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
18RHR(20)B-3	EL TO PIPE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	

WNP-02
INTERVAL: 01
DRAWING NO. RHR-208

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
ISI PROGRAM PLAN AND SCHEDULE
SYSTEM OR COMPONENT: RHR(20)-2
DESCRIPTION: LOOP B SPLY-RHR HX1B

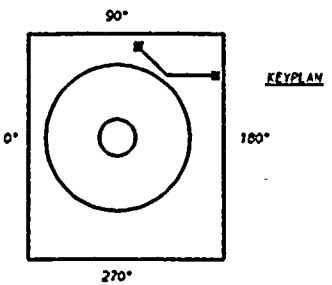
IDENT. NO.	DESCRIPTION	SECT. XI EXAM.	ITEM NO.	EXAM MTH.	CAL. BLOCK	SCHEDULED PER.	OUTAGE	REQ.	NOTES
RHR-561	STRUT	IWF	F-X	VT3H				F	
18RHR(20)B-4	PIPE TO TEE	C-F-2	C5.51	SUR				F8	
			C5.51	VOL				F8	
RHR-569	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-570	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-568	SPRING	N/A	N/A	N/A				OT	
RHR-567	STRUT	N/A	N/A	N/A				OT	
RHR-566	STRUT	N/A	N/A	N/A				OT	
RHR-969N	ANCHOR	N/A	N/A	N/A				OT	
RHR-960N	PSA-1 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-961N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-1003N	STRUT	N/A	N/A	N/A				OT	
RHR-938N	PSA-1 SN(2)	N/A	N/A	N/A				OT	S/N
RHR-930N	STRUT	N/A	N/A	N/A				OT	
RHR-939N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N
RHR-957N	PSA-3 SNUBBER	N/A	N/A	N/A				OT	S/N



REFERENCES:

ISI - 220-1

BOVEE & CRAIL ISOMETRIC
HPCS-630-13.19 REV B



ZONES R-33, R-43 & R-53

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QUALITY CLASS: 1	ASME CODE CLASS: 2
ENGR: GA KUGLER	DRAWN: K-McA
DATE: 8-11-78	

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
RICHLAND, WASHINGTON 99352

WNP-2
WELD & COMPONENT
IDENTIFICATION DIAGRAM

TITLE:
HPCS-PUMP-1 DISCHARGE

DWG NO: HPCS-202-4 REV 2

NO	DATE	REVISION	BY	CHKD	APVD
2	1-23-80	WELDS 35 & 36 ARE FIELD WELDS. HPCS-28 IS RIGID. CHANGED CAL BLOCK NO. TO UT-49. DELETED NOTES.	K-McA	DPR	TFH
1	5-24-83	NUMBERED WELDS, ADDED HPCS-917N, 915, 909N, DELETED HPCS-29, 30 ADDED UT-15 ADDED NOTE 2 UNDRAWN	K-McA	DPR	TFH
0	12-22-78	ISSUED FOR USE	K-McA	TFH Dwr	LFB
A	10-3-78	ISSUED FOR INFORMATION ONLY	K-McA	GAK	DWP

PIPING SYSTEM	NOM DIA (IN)	SCH	NOM WALL THK	MATERIAL SPECIFICATION	MATL TYPE	CAL BLOCK NO
16"HPCS(1)-4	16	100	1.031	SA 106 GR B	CS	UT-49